

COUNTY OF ANGUS



# Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

AND OF THE

COUNTY SANITARY INSPECTOR

FOR THE YEAR

**1970**



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# **Annual Report**

OF THE

**MEDICAL OFFICER OF HEALTH**

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**COUNTY SANITARY INSPECTOR**

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PUBLIC HEALTH DEPARTMENT,  
RAVENSWOOD,  
FORFAR. JULY, 1971.

To:-

The County Council of Angus  
The Town Councils of Brechin, Carnoustie, Forfar, Kirriemuir,  
Monifieth and Montrose  
The Scottish Home and Health Department.

Ladies and Gentlemen,

As required by Local Health Authority Services Circular No. 2/1971 issued by the Scottish Home and Health Department I herewith submit my Report on the Health of the County during the year 1970 with a report on the School Medical Service for the year ending 31st July, 1970.

I wish to record my thanks to members of the staff of the Public Health Department.

I am,  
Your obedient Servant,  
(Signed) W. BURNETT,  
Medical Officer of Health.

## STAFF OF PUBLIC HEALTH DEPARTMENT

Medical Officer of Health	... Walter Burnett, M.B., Ch.B., D.P.H.
Depute Medical Officer of Health	... Margaret D. Hird, M.B., Ch.B., D.P.H.
Departmental Medical Officers	... Jessie C.M. Learmonth, M.B., Ch.B., D.P.H. Frederick R. Hood, M.B., Ch.B.
Part-time Departmental Medical Officers	... Winifred W. Lumsden, M.B., Ch.B., (Commenced 16th April, 1970) Sheila M. Tocher, M.B., Ch.B., D.P.H. (Commenced 5th May, 1970)
Chief Dental Officer	... Douglas N. Anderson, L.D.S.
Dental Officers	... Ena A. Millar, L.D.S. Elizabeth J. Mann, L.D.S. Joseph P. Mayo, L.D.S., (Resigned 15th March, 1970) Keith C. Forsey, B.D.S.
Chief Chiropodist	... Leslie F. Brash, M.Ch.S., S.R.Ch.
Senior Chiropodists	... Mrs. S. Anderson, M.Ch.S., S.R.Ch. Mrs. M. Harley, M.Ch.S., S.R.Ch. David J.P. Neave, M.Ch.S., S.R.Ch.
Superintendent of Nurses	... Elizabeth M. Proctor, R.G.N., S.C.M., Q.N., H.V.
Depute Superintendent of Nurses	... Christine R. Playfair, R.G.N., R.S.C.N., S.C.M., Q.N., H.V. (Resigned 30th September, 1970) Rosemary E.A. Duncan, R.G.N., R.S.C.N., S.C.M., Q.N., H.V. (Commenced 1st October, 1970)
County Sanitary Inspector	... Robert A. Taylor
Depute County Sanitary Inspector	... Thomas Gordon
Depute Master of Works	... William Henderson
Sanitary Inspectors	... Laurence Borthwick James Sommerville Robert Ferguson (Resigned November, 1970) Thomas Hendry (Commenced December, 1970)
Building Inspector	... George Milne
Milk Officer	... Christian J.W. Gall B.Sc., (Agric.) N.D.D.
Dental Attendants	... Gloria A. Grossi (Resigned 15th September 1970) Gillian Esplin Margaret A. Hanlon (Robertson) from 5th September, 1970 Barbara Milne (White) from 28th November, 1970 Rachel J. McIntosh
Part-time Dental Attendant	... Mrs. Sheila Paterson (Commenced on 30th November, 1970)

## NURSING STAFF

## HEALTH VISITORS/SCHOOL NURSES

	NURSING DISTRICT
Annie J. Downie, R.G.N., S.C.M., H.V. . . .	Brechin Burgh
Dorothy Haxton R.G.N., R.F.N., H.V. . . .	Forfar Burgh
Eleanor Grieve, R.G.N., R.F.N. . . .	Forfar Burgh
Anne Gray, R.G.N., H.V. (Leave of absence until 1st August, 1970 relieved by Elizabeth Paterson, R.G.N., S.C.M., H.V.) . . .	Carnoustie Burgh
Patricia Malloch, R.G.N., S.C.M., H.V. . . .	Monifieth Burgh
Ann Herschell, R.G.N., S.C.M., H.V. . . .	Montrose Burgh (Resigned 30th September, 1970)
Margaret Anderson, R.G.N., S.C.M., H.V. . . .	Montrose Burgh
Amelia Ballard, R.G.N., S.C.M., H.V. . . .	Montrose Burgh (Commenced 1st November, 1970)

## DISTRICT NURSE/MIDWIFE/HEALTH VISITORS

## NURSING DISTRICT

Phyllis Donald, R.G.N., S.C.M., Q.N., H.V. . . .	Airlie
Marjorie Ogilvie, R.G.N., R.F.N., S.C.M., Q.N.	Arbirlot
Helen Kidd, R.G.N., S.C.M., Q.N. . . .	Auchterhouse (Resigned 30th June, 1970)
Elizabeth Watt, R.G.N., S.C.M., H.V. . . .	Auchterhouse (Commenced 16th September, 1970)
Ann Strathern, R.G.N., S.C.M., Q.N. . . .	Careston
Robina Lindsay, R.G.N., S.C.M., Q.N. . . .	Edzell
Elizabeth Budka, R.G.N., S.C.M., Q.N. . . .	Friockheim
Jane Edwards, R.G.N., S.C.M., Q.N. . . .	Hillside
Susanne Kranold, R.G.N., S.C.M., Q.N. . . .	Inverarity
Jessie A. Bruce, R.G.N., S.C.M., Q.N. H.V. . . .	Inverkeilor
Elizabeth Topen, R.G.N., S.C.M., Q.N., H.V. . . .	Kirriemuir
Sarah Carmichael, R.G.N., S.C.M., Q.N. . . .	Kirriemuir Landward
Jessie McDougall, R.G.N., S.C.M., Q.N. . . .	Letham
Ann Beattie, R.G.N., S.C.M., Q.N. . . .	Monikie
Rosetta Ogilvie, R.G.N., S.C.M., Q.N., H.V. . . .	Murroes
Elizabeth McKelvie, R.G.N., S.C.M., Q.N. . . .	Newtyle
Anna Ogilvie, R.G.N., S.C.M., Q.N. . . .	Southesk

## DISTRICT NURSE/MIDWIVES

## NURSING DISTRICT

Catherine MacKenzie, R.G.N., S.C.M., Q.N. . . .	Brechin
Grace Stewart, R.G.N., S.C.M., Q.N. . . .	Brechin
Margaret Forrest, R.G.N., S.C.M., Q.N. . . .	Carnoustie
Alexa Robertson, R.G.N., S.C.M. . . .	Carnoustie
Marion Goldie, R.G.N., S.C.M., Q.N. . . .	Forfar (Resigned 5th April, 1970)
Janet Findlay, R.G.N., S.C.M., Q.N. . . .	Forfar (Commenced 6th April, 1970)
Elizabeth Lord (formerly Williamson) R.G.N., S.C.M., Q.N. . . .	Monifieth

## DISTRICT NURSES

Margaret R. Bell, R.G.N. (Part-time)  
 Margaret Thornton, R.G.N.  
 Susan Clark, R.G.N.  
 Joan Stewart, R.G.N.  
 Grace Williams, R.G.N.

...  
 ...  
 ...  
 ...  
 ...

## NURSING DISTRICT

Forfar  
 Montrose (Resigned 15th May, 1970)  
 Montrose (Commenced 1st June, 1970)  
 Montrose  
 Montrose

## CLERICAL STAFF

Margaret D. McIntosh  
 Margaret Davidson  
 Anne C. Archibald

...  
 ...  
 ...

Senior Clerkess  
 Clerkess/Typist  
 Clerkess/Typist (Resigned 12th  
 February, 1970)

Elizabeth Robertson

...

Clerkess/Typist (Commenced Part-time  
 on 9th February, 1970, Full-time  
 from 4th May, 1970)

Barbara B. Coull

...

Clerkess/Typist (Commenced 2nd  
 March, 1970)

Anne T. Webster

...

Clerkess/Typist (Resigned 20th  
 November, 1970)

Elizabeth C. Kinnear

...

Clerkess/Typist (Commenced 2nd  
 November, 1970)

Ann Flett

...

Clerkess/Typist

Helen J. Urquhart

...

Junior Clerkess/Typist (Resigned  
 13th March, 1970)

Pauline S. Bowden

...

Junior Clerkess/Typist (Commenced  
 2nd February, 1970) (Resigned  
 10th August, 1970)

Irene N. Robertson

...

Junior Clerkess/Typist (Commenced  
 24th August, 1970)

Rosemary Vorm

...

Junior Clerkess/Typist

Patricia Salmond

...

Junior Clerkess/Typist

Kathryn E. Ferrier

...

Junior Clerkess/Typist

Ruth J. Fraser

...

Clerkess/Typist (Sanitary Department)

Brenda M. Graham (Neave from  
 July, 1970)

...

Junior Clerkess/Typist/Telephonist  
 (Sanitary Department)



## CLINIC SESSIONS

FORFAR BURG

at Ravenswood

Monday	9.30 a.m.	Minor Ailments (School Medical Service)
Monday	9 - 4 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Tuesday (by arrangement)	9.00 a.m.	Specialist Clinic (Eye)
Tuesday - 2nd	9.30 - 12 noon	Specialist Clinic (Orthopaedic) (Monthly)
Tuesday	2.00 - 4.00 p.m.	Child Welfare
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Wednesday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)
Thursday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Thursday	2.30 - 3.15 p.m.	Mothercraft
Thursday	3.15 - 4.15 p.m.	Antenatal Relaxation Class

BRECHIN BURG

at Damacre Road

Monday	9.30 a.m.	Minor Ailments (School Medical Service - Nurses Clinic)
Tuesday	9.00 - 12.00 noon	Speech Therapy (Welfare Office, Panmure Street), (in abeyance, no Speech Therapist)
Tuesday (by arrangement)	1.45 p.m.	Specialist Clinic (Eye)
Wednesday	2.00 - 4.00 p.m.	Child Welfare
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday	11.00 a.m.	Minor Ailments (School Medical Service)

MONTROSE BURG

at Esk House

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Tuesday	9.00 - 4.00 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Tuesday	2.00 p.m.	Baby Weighing Clinic
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)

MONTROSE BURGH (continued)

Thursday	12.00 noon	Minor Ailments (School Medical Service)
Thursday	2.30 - 3.30 p.m.	Mothercraft
Thursday	3.00 - 4.00 p.m.	Antenatal Relaxation Class
Friday	2.00 - 4.00 p.m.	Child Welfare

CARNOUSTIE BURGH

at 126 High Street

Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)
Thursday	2.00 - 4.00 p.m.	Child Welfare

at Carnoustie School

Thursday	9.00 - 12.00 noon	Speech Therapy (in abeyance, no Speech Therapist)
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MONIFIETH BURGH

at Seaview

Monday	2.00 - 4.00 p.m.	Child Welfare
Thursday	9.00 - 12.00 noon	Speech Therapy (in abeyance, no Speech Therapist)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)

ARBROATH CLINIC

at 7 Hill Street

Monday	2.30 p.m.	Minor Ailments (School Medical Service – Nurses Clinic)
Monday	2.30 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Tuesday	2.00 - 4.30 p.m.	Physiotherapy Treatment
Wednesday – 1st, 3rd and 4th	9.30 - 12.00 noon	Specialist Clinic (Orthopaedic)
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Mental Deficiency)
Thursday	2.00 p.m.	Minor Ailments (School Medical Service - Nurses Clinic)
Friday	9.00 - 4.00 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Friday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Saturday (by arrangement)	9.30 - 12.00 noon	Physiotherapy Treatment

Family Planning and Cervical Cytology sessions are held in the Burghs of Brechin, Carnoustie, Forfar, Monifieth and Montrose as required. All cases are seen by appointment.

Chiropody Clinics are held by appointment at :-

7 Hill Street	...	...	Arbroath
Damacre School Clinic	...	...	Brechin
Clinic, 126 High Street	...	...	Carnoustie
Ravenswood Clinic	...	...	Forfar
Esk House Clinic	...	...	Montrose
Inglis Memorial Hall	...	...	Edzell
Church Hall	...	...	Ferryden
Town Hall	...	...	Kirriemuir
Clinic, Seaview School	...	...	Monifieth
Ex-Service Hut	...	...	Muirhead
The Hall	...	...	Tealing
Nurses Homes	...	...	Hillside, Letham, Newtyle, Glamis and Friockheim.

Home visits are paid to Burgh cases who are unable to attend the Clinic and to country cases where there is no convenient Clinic or suitable accommodation available in the District Nurse's house serving the area.

## VITAL STATISTICS

The Registrar General has estimated the mid-year population of the County to be 73,496, which compares with 76,197 in the 1961 census.

Population				1961	1970
				Census Population	Estimated Population
Burgh of Brechin	...	...		7198	6735
Carnoustie	...	...		5516	5753
Forfar	...	...		10252	10066
Kirriemuir	...	...		3476	4107
Monifieth	...	...		3488	5541
Montrose	...	...		10793	10117
Total Burghal				40723	42319
Landward				35474	31177
Total County				76197	73496

### BIRTHS

	1970	1969	1968
Live births allocated to the County	1147	1168	1144
Birth rate	15.6	15.8	15.4

Live births according to area of mother's residence:-

				1970	1969	1968
Landward	...	...		466	501	526
Burgh of Brechin	...	...		90	87	81
Carnoustie	...	...		90	104	89
Forfar	...	...		148	155	132
Kirriemuir	...	...		66	73	61
Monifieth	...	...		136	100	95
Montrose	...	...		151	148	160
Total	...	...		1147	1168	1144

### STILL BIRTHS

After correction for transfer:-

	1970	1969	1968
No. of Still Births	18	12	6
Still Birth Rate (No. of Still Births per 1,000 Births)	15	10	5

DEATHS

After correction for transfer:-

	1970	1969	1968
No. of Deaths	994	1002	937
Death Rate (No. of Deaths per 1,000 population)	13.5	13.6	12.6

## Distribution of Deaths by Age Groups

	1970	1969	1968
Under 1 year ... ..	18	13	10
From 1 — 4 years ...	6	1	11
5 — 9 years ...	5	2	1
10 — 14 years ...	0	1	1
15 — 24 years ...	15	10	7
25 — 34 years ...	9	10	7
35 — 44 years ...	21	19	22
45 — 54 years ...	43	61	42
55 — 64 years ...	134	145	145
65 — 74 years ...	284	263	244
75 — 84 years ...	294	322	295
85 years and over ...	165	155	152

During the year the diseases responsible for the largest number of deaths were:-

Diseases of the Heart and Circulation ... ..	...	380
Malignant Disease (including Cancer of the Lung 41) ...	...	205
Cerebrovascular Disease ... ..	...	132
Other diseases of Nervous System ... ..	...	18
Diseases of the Respiratory System ... ..	...	118
Diseases of the Genito-urinary system ... ..	...	20
Diabetes ... ..	...	18
Diseases of the Digestive System ... ..	...	15

There were 42 deaths from violence in 1970, including 5 by suicide compared with 9 in 1969, 17 by motor vehicles compared with 13 last year. The number of deaths due to accidents in the home was 14, which is the same as in 1969.

INFANT MORTALITY

	1970	1969	1968
No. of deaths of children under 1 year	18	13	10
Infant mortality rate (per 1,000 live births)	16	11	9
No. of deaths of children under 4 weeks	9	8	6
Neonatal death rate (per 1,000 live births)	8	7	5

PERINATAL DEATHS

	1970	1969	1968
No. of still born infants	18	12	6
No. of infants who died in first week of life	7	6	5
Total (i.e. no. of perinatal deaths)	25	18	11
Perinatal death rate (per 1,000 live and still births)	21.46	15.36	9.8
Cause of death in infants:-			
	Under 4 Weeks	4 Weeks to 1 Year	
Birth injury, difficult labour and other anoxic and hypoxic conditions	4	-	
Malignant neoplasm (Neurosarcoma)	-	1	
Pneumonia	-	3	
Congenital Anomalies of Circulatory System	2	1	
Other Congenital Anomalies	2	1	
Accidents in the Home	1	3	
TOTAL	9	9	

DEATHS FROM TUBERCULOSIS

	1970	1969	1968
No. of Deaths	-	4	-

SENILE DEATHS

743 persons died after their 65th birthday, giving a senile death rate of 74.75 per 100 deaths.

MATERNAL DEATHS

There were no deaths from childbirth in 1970.

**LOCAL AUTHORITY FUNCTIONS**MIDWIFERY, MATERNITY AND CHILD WELFARE SERVICES

Births in Angus before transfer i.e. before correction for mother's usual place of residence:-

	1970	1969	1968
No. of babies born within the County	477	536	530
No. of still births (included in above)	2	1	-



Place of Birth		1970	1969	1968
Own Home	No. of births	8	9	9
	Percentage	1.7	1.7	1.7
Fyfe-Jamieson Maternity Home	No. of births	242	269	291
	Percentage	50.7	50.2	55
Charleton Maternity Home	No. of births	227	257	230
	Percentage	47.6	47.9	43.4
Stracathro Hospital	No. of births	-	1	-
	Percentage	-	0.2	-
TOTAL	No. of Births	477	536	530
	Percentage	100	100	100

Births to Angus mothers after transfer i.e. after correction for mother's usual place of residence:

	1970	1969	1968
No. of live births	1147	1168	1144
No. of still births	18	12	6
No. of total births	1165	1180	1150

Births transferred to Angus occurred in the following hospitals:-

Dundee Royal Infirmary	—	371 including 11 still births
Maryfield Hospital, Dundee	—	258 including 5 still births
Arbroath Infirmary	—	109
Aberdeen Maternity Hospital	—	11
Perth Royal Infirmary	—	6
Blairgowrie Cottage Hospital	—	5
Arduthie Hospital, Stonehaven	—	1

The Midwifery Service provided by the County Council is detailed in a later section of this report.

## CARE OF MOTHERS AND YOUNG CHILDREN

### HEALTH VISITING

Much of the care of mothers and young children is done by home visits paid by the Health Visitors or by District Nurses doing health visiting duties. At these visits advice is given and the child's development is kept under surveillance, medical consultation being obtained when any abnormality is seen. Immunisation of the child is advised and explained. Health Education is included in these visits, often in an unobtrusive and effective manner to mothers who would be unwilling to accept more formal teaching.

## MATERNAL AND CHILD WELFARE VISITS IN 1970

	No. of Cases	No. of Visits
Expectant Mothers	1009	3556
Children born in 1970	1298	10275
Children born in 1969	1857	9060
Children born in 1965 – 1968	4315	11343
	<hr/> 8479	<hr/> 34234

CHILD WELFARE CLINICS

## NO. OF CHILDREN ATTENDING

	No. of Clinics per week	Born 1970	Born 1969	Born 1965-68	Total Attendances
Brechin	1	73	63	86	2194
Carnoustie	1	90	69	55	1646
Forfar	1	97	114	60	1282
Monifieth	2	98	68	165	1653
Montrose	2	162	140	227	2930
		<hr/> 520	<hr/> 454	<hr/> 593	<hr/> 9705

The above Clinics are staffed by the Local Authority doctors and health visitors. The childrens' development and progress are assessed, and where necessary investigation and treatment are initiated. Advice is given. Mothers are encouraged to ask about their problems and doubts. Since the early days of Child Welfare Clinics the types of problem and anxiety of the mothers have changed from time to time, but the support given at these Clinics is still of undoubted value. Much of the Health Education to young mothers is reiterated at these Clinics, and mothers are invited to attend the educational films shown and amplified by the Health Visitors at the Mothercraft sessions. Immunisation is advised and carried out against Diphtheria, Whooping Cough, Tetanus, Poliomyelitis, Small pox and Measles.

In Kirriemuir the District Nurse/Health Visitor holds a weekly clinic in the duty room of her house.

MOTHERCRAFT SESSIONS

These sessions are for expectant mothers and are held in the Burgh Clinics. Women who are expecting their first baby are particularly encouraged to attend.

	No. of Mothers Attending	No. of Attendances
Forfar	29	170
Montrose	36	226
Carnoustie	4	7
	<hr/> 69	<hr/> 403



WELFARE FOODS

Distribution of Welfare Foods during 1970 at Clinics and by District Nurses:-

No. of Packets of Dried Milk	No. of Bottles of Cod Liver Oil	No. of Bottles of Orange Juice	No. of Packets of Vitamin Tablets
3407	1093	21212	1206

ORTHOPAEDIC CARE

Under the scheme 848 children under school age attended for various disabilities as shown:-

	Angus County	Arbroath Burgh
No. of cases seen by Specialist	252	596
No. of cases referred for hospital treatment	13	13
No. of cases receiving physiotherapy	54	83

The children seen at Arbroath Burgh Clinic include children from the surrounding landward area and from Carnoustie as well as Arbroath pre-school children.

OPHTHALMIC CARE

During 1970, 66 children under the age of five were referred to Eye Specialists under the Scheme. 27 of those were new cases and 39 were continuing treatment from the previous year.

DENTAL CARE

During 1970, 35 cases were treated by the County Council's Dental Staff as an extension of the School Dental Service. 4 of the cases were expectant mothers, 2 were nursing mothers and 29 were children under school age.

## Details of Treatment

## Pre-School Children —

Fillings in deciduous teeth	...	...	31
Extractions of deciduous teeth	...	..	39
Other operations	...	...	17
General anaesthetics	...	...	4

## Expectant and Nursing Mothers —

Fillings in permanent teeth	...	...	18
Extractions of permanent teeth	...	...	2
Other operations	...	...	4
Dentures supplied	...	...	2

AT RISK REGISTER

This is a register of Pre-School Children who may develop physical or mental defects as a result of known pre-natal, intra-natal or post-natal

factors. Their progress is reviewed at regular intervals and their names are removed from the register if it is evident that no defect has been caused or if a handicap has become manifest they are transferred to the Handicapped Register.

On December 31st 1970, the number of children on the Register was:-

Born in 1970	—	238
Born in 1969	—	157
Born in 1968	—	65
Born in 1967	—	38
Born in 1966	—	28
Total	—	<hr/> 526 <hr/>

### PHENYLKETONURIA TESTING

Phenylketonuria is an inborn metabolic error which, if untreated, leads to rapid development of mental retardation. If it is detected at a very early stage and treatment by a special diet is introduced and maintained, this mental retardation can be prevented. Once it has developed it cannot be cured. To detect it at the earliest possible stage, blood samples are taken in the neonatal period and sent for testing to Strathmartine Hospital. The Medical Officer of Health makes every effort to ensure that all infants have this test done. The blood is taken either in the hospital where the baby was born, or at home by the Health Visitor or District Nurse, unless the General Practitioner wishes to do it himself. When a repeat test is needed it is usually done by the nurse. This testing scheme was successfully operated throughout the year. 1197 infants were tested in 1970 and no case of phenylketonuria was found.

### FAMILY PLANNING (previously known as Mothers Advisory Service)

No. of Clinics held and attendances :-

	No. of Sessions	No. of New Cases Seen	No. of Cases Re-examined	Total Attendances
Brechin	5	6	9	15
Carnoustie	7	4	6	10
Forfar	7	12	16	28
Monifieth	6	6	13	19
Montrose	8	12	25	37
Total	<hr/> 33	<hr/> 40	<hr/> 69	<hr/> 109 <hr/>

Plans were made to extend this service to include the provision of Oral Contraceptives and Intra-uterine Devices and to make it available to a greater number of women. The co-operation and approval of the general practitioners is being sought. Since the service began in Angus in 1951 the Clinics have been staffed by doctors and Health Visitors in the Public Health Department, and this will continue.

## NURSING SERVICES

### HEALTH VISITING

This service is carried out by 7 full-time Health Visitors, who do all Health Visiting duties, and 25 full-time District Nurses doing combined duties. By arrangement with Perthshire County Council it is carried out in the Glenisla District by the Alyth District Nurse, who does combined duties. The care of mothers and young children, detailed earlier in the report, is one of the Health Visiting duties done by 16 of the District Nurses as well as by the 7 full-time Health Visitors. Other Health Visiting activities include visits to notified cases of tuberculosis and their contacts, visits to old people, inspection of school children with, when necessary visits to the children's homes, assisting with epidemiological investigations, Health Education and visits connected with the Home Help Service and Mental Health. The Burgh Health Visitors also staff the Clinics held under the various schemes of the Local Authority.

Numerical details of the Health Visitors' work are shown in a table at the end of this section.

### HOME NURSING

This service is carried out by the 25 full-time District Nurses mentioned above, by one part-time Nurse in the domiciliary service, and by the Alyth District Nurse as described above. Particulars of their work are detailed in the tables at the end of this section.

### MIDWIFERY SERVICES

Of the 25 full-time District Nurses, 22 undertake domiciliary midwifery, as does the Alyth District Nurse in the Glenisla District. The number of home confinements in the year was again small. After hospital confinement the practice of early discharge home of the mother and child has in recent years increased the number of domiciliary post-natal visits by the District Nurse/Midwives during the lying-in period. Ante-natal care continues to be carried out as before by the District Nurse/Midwives and Health Visitors. Figures are in the tables at the end of this section.

The medical supervision of the midwives is done by the Medical Officer of Health and the non-medical supervision by the County Nursing Superintendent.

### LINKS BETWEEN GENERAL MEDICAL PRACTITIONERS AND THE LOCAL AUTHORITY NURSES

In 1970 there was no complete attachment of a Public Health Nurse to a General Practitioner. In the Burghs of Brechin, Carnoustie and Montrose the Health Visitors or District Nurses assisted at certain of the General Practitioners' Ante-Natal Clinics held in the doctors' surgeries. In the Friockheim District the District Nurse/Health Visitor helped at General Practitioner Ante-Natal, Post-Natal and Cervical Cytology Clinics. The Auchterhouse District Nurse/Health Visitor helped at the Child Welfare Clinic held by the practitioners at their Practice Centre. The Newtyle District Nurse attended a General Practitioner's Ante-Natal Clinics.

## HEALTH VISITING – SUMMARY OF TYPES OF VISIT

In 1970 Health Visitors and combined District Nurse/Health Visitors paid 55,886 health visits classified thus:-

	No. of Cases	No. of Visits
1. Expectant Mothers	1009	3556
2. Children Pre-School		
Born in 1970	1298	10275
Born in 1969	1857	9060
Born in 1965-68	4315	11343
	<hr/> 7470	<hr/> 30678
3. School Children	832	1532
4. Persons aged 65 and over	1720	13891
Includes those visited at request of G.P. or Hospital	<hr/> 137	<hr/> 425
5. Mental Health – Care and After-Care	160	815
Includes those visited at request of G.P. or Hospital	<hr/> 29	<hr/> 178
6. Other Hospital After Care	27	611
Includes those visited at request of G.P. or Hospital	<hr/> 18	<hr/> 578
7. Tuberculous Households	196	513
8. Infectious Disease	115	250
9. Home Help Supervision etc.	621	2788
10. Miscellaneous	549	1252
	<hr/> 12699	<hr/> 55886

## HOME NURSING – SUMMARY OF TYPE OF CASE

Type of Case	Total No. of Cases
Abdominal   ...   ...   ...   ...	77
Anaemia     ...   ...   ...   ...	346
Bronchitis and Pneumonia   ...   ...	93
Cardiac     ...   ...   ...   ...	97
Cerebral    ...   ...   ...   ...	94
Diabetes    ...   ...   ...   ...	92
Disseminated Sclerosis   ...   ...   ...	32
Obstruction   ...   ...   ...   ...	34
Renal       ...   ...   ...   ...	29
Senility     ...   ...   ...   ...	186
Carcinoma   ...   ...   ...   ...	96
Carried forward	<hr/> 1176



## HOME NURSING – SUMMARY OF TYPE OF CASE (continued)

Type of Case	Total No. of Cases			
Brought forward				1176
Tuberculosis . . . . .	...	...	...	8
Other Conditions (Medical)	...	...	...	386
Gynaecological Cases	...	...	...	86
Burns . . . . .	...	...	...	102
Cuts and Bruises	...	...	...	259
Post-Operative Care	...	...	...	222
Varicose Ulcers	...	...	...	120
Other Conditions (Surgical)	...	...	...	214
				<hr/> 2573
Maternity Cases	...	...	...	8
Puerperium only (Hospital confinements)	...	...	...	<hr/> 94
				<hr/> <hr/> 2675

Of the 2573 cases 872 were visited on 12,228 occasions mainly to give special treatment as shown below:-

	No. of Cases	No. of Visits for Injections etc.
Enemas . . . . .	127	288
Antibiotic injections	104	760
Streptomycin injections	11	309
Liver injections	17	197
Cytamen and Vitamin B injections . . . . .	369	7150
Diuretic injections	36	708
Insulin injections	21	1139
Other injections	108	1488
Gynaecological cases		
Douching or changing pessaries	<hr/> 79	<hr/> 189
	<hr/> <hr/> 872	<hr/> <hr/> 12228

AGE-GROUP SUMMARY

	1970	1969	1968
No. of patients aged under 5 years	188	190	189
5 - 65 years	849	879	929
Over 65	1536	1526	1426
Total	<hr/> 2573	<hr/> 2595	<hr/> 2544
Total No. of visits	<hr/> <hr/> 53774	<hr/> <hr/> 53876	<hr/> <hr/> 53263

# SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1970 HEALTH VISITING

	Welfare Visits to elderly	Home Help Visits	Tuberculosis Visits	Mental Health Visits	Infectious Diseases	Miscellaneous Visits	Child Welfare Home Visits			Child Welfare Clinics			Schools			
							Children born 1970	Children born 1969	Children born before 1969	Children born 1970	Children born 1969	Children born before 1969	At Drs. School Inspection	At Nurses School Inspection	Minor Ailments	Home Visits
Airlie	88	4	2	19	3	10	212	199	279	.	.	.	99	1274	2	27
Arbirlot	251	3	2	2	25	117	240	109	131	.	.	.	283	324	.	4
Auchterhouse	323	29	.	5	.	46	264	399	419	113	95	78	247	1424	.	14
Brechin 1	208	83	25	.	.	.	.	.	.	.	.	.	.	.	.	.
Brechin 2	400	198	37	.	.	.	.	.	.	.	.	.	.	.	.	.
Careston	936	12	6	84	.	.	433	688	508	.	.	.	233	1988	6	92
Carnoustie 1	973	75	.	45	.	186	.	.	.	.	.	.	.	.	.	.
Carnoustie 2	699	74	.	.	.	81	.	.	.	.	.	.	.	.	.	.
Edzell	65	.	.	.	.	3	421	650	452	.	.	.	149	952	.	.
Forfar	366	213	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Frickheim	316	6	8	17	1	.	251	194	257	.	.	.	228	811	.	4
Glenisla	.	.	13	9	.	4	52	76	85	.	.	.	57	322	.	.
Hillside	649	95	21	117	15	297	334	214	435	.	.	.	159	818	.	23
Inverarity	612	.	16	17	24	92	127	234	414	.	.	.	30	357	3	68
Inverkeilor	249	17	.	32	.	.	447	328	255	.	.	.	302	673	4	105
Kirriemuir	454	287	13	.	18	3	295	308	529	458	444	428	72	657	.	14
Kirriemuir L.	525	15	.	.	.	.	278	316	432	381	260	228	102	811	.	4
Letham	585	10	15	50	2	33	188	141	279	.	.	.	.	744	3	13
Monifieth	216	17	4	.	.	.	.	.	.	.	.	.	.	.	.	.
Monifieth	216	17	4	.	.	.	.	.	.	.	.	.	.	.	.	.
Montrose 2	843	471	71	.	.	.	.	.	.	.	.	.	.	1024	4	17
Montrose 1	930	230	28	66	.	.	.	.	.	.	.	.	84	2710	1	70
Montrose 3	670	336	59	4	.	.	.	.	.	.	.	.	.	3311	.	95
Murroes	617	16	.	26	60	.	359	395	495	.	.	.	196	442	30	13
Newbigging	296	2	1	12	9	122	390	316	439	.	.	.	154	1008	.	5
Newtyle	493	3	8	33	.	.	416	460	276	57	86	47	252	2252	9	5
Southesk	913	116	.	98	.	.	549	299	185	20	32	3	98	430	.	9
	12677	2312	329	636	157	994	5256	5326	5870	1029	917	784	2745	22332	62	577

# SUMMARY OF DISTRICT NURSE'S WORK FOR YEAR 1970

	Total Hours on Duty				Nursing Cases				Total No. of Visits			Maternity	Ante-Natal Visits	A.N. Clinics with G.P.	Post Natal
	Nursing	Health Visiting and C.W. Clinics	Mental Health	Schools	Total	Children under 5 years	Patients 5 years and under 65	Patients 65 years and over	Domiciliary Confinements	Delivered in Hosp. and returned home	Children under 5 years	Patients 5 years and under 65	Patients 65 years and over		
Airlie	944½	594½	7½	50½	1597	3	28	33	-	-	10	248	679	1	29
Arbriot	1746	223½	-	29½	1999	13	34	45	2	2	174	259	1727	42	50
Auchterhouse	1097	759	½	29½	1886	18	32	29	-	16	66	177	595	99	51
Brechin 1	1562	104	-	-	1666	-	8	66	-	-	-	24	1816	-	-
Brechin 2	1721	113	-	-	1834	4	17	64	1	-	17	100	2144	1	-
Careston	744	1014	45	84	1887	1	16	21	-	-	17	285	660	8	301
Carnoustie 1	1902	267	-	-	2169	2	46	81	-	13	16	1106	2510	100	-
Carnoustie 2	1983	196	-	-	2179	-	22	99	-	3	3	446	3395	23	-
Edzell	1018½	863	-	63	1944½	2	15	34	-	-	19	126	1049	-	-
Forfar 1	1895½	242	-	-	2137½	8	80	194	-	-	55	455	3798	-	-
Forfar 2	952	54	-	-	1006	-	-	-	-	-	-	335	1113	-	-
Frickheim	1377	411½	10	41½	1840	9	34	64	1	3	200	413	1483	48	63
Glenisla	409	128½	-	18½	556	-	6	6	-	-	-	413	49	-	-
Hillside	1045	715½	27	41½	1829	21	56	51	-	-	92	634	1343	-	78
Inverarity	1121½	989½	12	27½	2150½	4	26	26	-	-	19	421	573	1	73
Inverkeilor	1215½	407½	67	62	1752	1	43	37	-	-	89	424	1585	1	47
Kirriemuir	1025½	780	-	14	1819½	5	51	103	1	1	7	423	1751	5	20
Kirriemuir	1191½	864½	-	73	2129	10	16	33	1	-	45	489	984	1	-
Landward	1235	482	27½	36	1780½	9	42	48	-	-	49	806	1035	2	34
Letham	1472	182½	-	-	1654½	15	40	51	1	42	63	337	1536	243	-
Monifeth	1506½	527½	4	43½	2081½	2	36	84	-	2	12	664	1991	12	-
Montrose 1	1532	419½	26	13	1990½	1	41	111	-	-	12	406	2490	-	-
Montrose 2	1671	325	-	85	2081	1	30	117	-	-	3	382	2355	-	-
Montrose 3	1291	681	5	25	2002	21	41	43	1	2	92	1015	1642	84	51
Newbigging	1296	395	-	71½	1762½	19	45	45	-	4	220	585	1164	19	4
Newtyle	691½	386	30	23½	1131	3	17	22	-	-	22	337	693	-	-
Southesk	897	820	18	65	1800	16	27	29	-	5	66	308	628	32	53
Murroes															
	34542½	12945½	279½	897	48664½	188	849	1536	8	94	1368	11618	40788	722	854





## SUMMARY OF HEALTH VISITOR'S WORK FOR THE YEAR 1970

	Ante-natal	Post-Natal	Ante-Natal at G.P. Clinic	Post-Natal at G.P. Clinic	Health Education	Tuberculosis	Mental Health Visits	Miscellaneous	Infectious Diseases	Child Welfare Home Visits			Child Welfare Clinic				Clinics					Schools Number of Children seen and treated						Children received B.C.G.	Total Hours on Duty					
										Children born 1970	Children born 1969	Children born 1966-68	Children born 1970	Children born 1969	Children born 1966-68		Orthopaedic	M.D.	Cytology	Mother's Advisory	Mothercraft	At. Dr. Inspection	At Nurse's Inspection	At School Clinic	Home Visits	Children Immunised against Poliomyelitis			Children Immunised against Diphtheria	Mantoux Test	Health Visiting and C.W. Clinics	Mental Health	School Nursing	Total
Arbroath 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	94	-	-	24	-	569	1484	18	294	-	66	314	-	-	368	368		
Arbroath 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	668	91	42	109	-	-	386	384	-	-	231	231		
Arbroath 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	330	95	13	-	-	-	-	77	-	-	72	72		
Arbroath 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	9	1012	-	-	-	1849	4303	-	134	-	-	381	706	-	-	1062	1062		
Brechin 1	-	-	104	69	9	-	34	52	13	669	403	538	549	498	500	2	3	-	-	5	13	-	817	3702	47	53	-	-	-	-	1093	20½	239	1352½
Brechin 2	-	-	-	-	-	-	-	77	-	150	146	263	251	180	186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	376	-	8	384	
Carnoustie	221	245	396	12	3	14	41	74	34	985	822	704	692	568	381	2	2	1	8	3	7	345	1093	8	56	144	148	96	88	1703	3½	172½	1879	
Forfar 1	357	150	-	-	229	16	16	31	20	626	655	909	570	467	121	1	428	39	73	22	170	-	133	52	14	-	-	-	-	1755	27	-	1782	
Forfar 2	-	-	-	-	-	154	-	3	-	34	101	375	10	24	-	7	5	6	-	-	-	3980	8858	54	167	410	390	877	841	572	-	1272	1844	
Monifieth	115	135	-	-	-	-	8	4	9	907	387	1284	621	473	559	5	6	13	-	21	-	394	1836	-	53	226	310	39	55	1643	5	104	1752	
Montrose 1	253	68	405	36	-	-	25	7	4	874	754	773	683	494	429	5	-	3	86	17	142	554	-	12	30	142	132	191	-	1690	29	149½	1868½	
Montrose 2	310	148	309	36	4	-	55	10	13	754	466	627	631	388	305	8	-	13	59	21	84	447	-	19	45	93	85	54	123	1569½	2	98	1669½	
	1256	746	1214	153	245	184	179	100	93	4999	3734	5473	4007	3092	2481	12	1547	75	231	127	403	9953	21595	265	955	1015	1131	2338	2274	10401½	87	3776	14264½	



## NURSING BENEVOLENT FUNDS

Local Nursing Benevolent Committees throughout the County have augmented nursing equipment provided by the Public Health Department, such as commodes, tripod walking sticks, Zimmer aids, etc. Financial aid has been given to the chronic sick and also towards home help expenses. Funds were made available for the Nursing Superintendent to provide Christmas Parcels for the sick and elderly. These parcels were distributed by the District Nurses. In addition to the chronic sick and elderly, necessitous families were given help with food, clothing and coal.

## HEALTH CENTRES AND CLINICS

During the year discussions continued about Arbroath and Brechin Health Centres. In both cases progress seemed disappointingly slow.

In Kirriemuir, three sites that might be used as clinic premises were inspected and considered by the Medical Officer of Health and the Depute County Architect. In each case it was not thought feasible to adapt the buildings for clinic premises at a reasonable cost. It is hoped however, that the Secretary of State will shortly consider a Health Centre within the burgh for the use of the general practitioners and the Local Health Authority.

In Monifieth Burgh, the cramped conditions at the Health Clinic in Seaview School remained. Strong representations have been made to the Central Department for consent to proceed with new clinic premises within the grounds of Seaview School and it was hoped that consent would have been forthcoming to allow the building to go forward at the same time as the new school.

The Health Department during the year took over the new nurse's house with duty room at Cortachy. The old Auchterhouse nurse's house was handed over to the Housing Department on taking over the recently vacated Police House with its better accommodation and duty room.

## VACCINATION AND IMMUNISATION

### SMALLPOX VACCINATION

The following table shows the number of primary vaccinations, re-vaccinations and the total number of vaccinations against smallpox recorded in the County in 1970. Comparable returns for 1969 and 1968 are shown.

		1970	1969	1968
Primary Vaccinations	... ..	869	666	801
Re-vaccinations	... ..	655	682	556
Total number of Vaccinations	... ..	1524	1348	1357

Many of those re-vaccinated were as before emigrants or travellers abroad who had to comply with the international regulations as enforced by the countries to which or through which they were travelling.

## DIPHTHERIA, TETANUS AND WHOOPING COUGH (PERTUSSIS)

### IMMUNISATION

Almost all children are given protection in infancy against all three diseases by Triple Vaccine. A combined vaccine against only Diphtheria and Tetanus is generally used for school children, most of whom require reinforcing doses to "boost" the protection given them in infancy.

The following tables show the number of immunisations done in 1970 against Diphtheria, Whooping Cough and Tetanus in pre-school and in school children, with comparative figures of the total number of immunisations in 1970, 1969 and 1968.

Primary Immunisations:-	Children born 1966 to 1970	Children born 1965 or earlier	1970	Total No. of Primary Immunisations	
				1969	1968
1. Diphtheria, Tetanus and Whooping Cough	1083	10	1093	920	916
2. Diphtheria and Tetanus	9	7	16	27	10
3. Tetanus only	4	775	779	803	511
Total	1096	792	1888	1750	1437

Reinforcing or "booster" Immunisations:-	Children born 1966 to 1970	Children born 1965 or earlier	1970	Totals	
				1969	1968
1. Diphtheria, Tetanus and Whooping Cough	493	74	567	631	720
2. Diphtheria and Tetanus	146	825	971	694	480
3. Diphtheria only	1	5	6	1	0
4. Tetanus only	3	184	187	126	146
Total	643	1088	1731	1452	1346

### POLIOMYELITIS IMMUNISATION

In 1970 only the oral vaccine was used throughout the County by Public Health Doctors and by General Practitioners.

PRIMARY IMMUNISATION			Total No. of Primary Immunisations		
Children born in 1970	Children born 1964-69	Young Persons born before 1964	1970	1969	1968
145	941	68	1154	965	946

### REINFORCING IMMUNISATION

Young persons of all ages	1413	1265	989
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### MEASLES IMMUNISATION

The supply of measles vaccine improved in 1970 and a total of 1151 children were immunised against measles as compared with 464 in 1969.

## CHILDREN IMMUNISED IN 1970

Children born 1965-70	1009
Children born in 1964 (school entrants)	77
Children born 1963 and earlier	65
Total	1151

## PREVENTION, CARE AND AFTER CARE

TUBERCULOSIS

Notifications	1970	1969	1968
No. of cases of pulmonary tuberculosis notified	14	18	16
No. of cases of non-pulmonary tuberculosis notified	1	4	4
All cases of tuberculosis notified	15	22	20
No. of deaths from pulmonary tuberculosis	--	4	—
No. of deaths from non-pulmonary tuberculosis	—	—	—
	Pulmonary	Non-pulmonary	
No. of cases treated in hospital	10	1	
No. of cases treated at home	4	—	

No. of persons resident in the county suffering from tuberculosis at the end of the year:-

	1970	1969	1968
Pulmonary ... ..	285	271	264
Non-Pulmonary ... ..	55	54	51
Total ... ..	340	325	315

The place of residence of these persons resident in the County in 1970 at 31st December, 1970 is shown in the following table:-

Residing in	Pulmonary	Non-Pulmonary
Brechin ... ..	30	10
Carnoustie ... ..	19	-
Forfar ... ..	40	6
Kirriemuir ... ..	17	8
Monifieth ... ..	11	1
Montrose ... ..	63	14
Landward Area ... ..	105	16



During the year Health Visitors and District Nurses paid visits to these households. They advised about the care of cases and prevention of infection, and arranged X-rays and attendance at Chest Clinics for family and other close contacts. They visited defaulters from X-ray sessions and Clinics. The District Nurses gave home nursing care when necessary.

### B.C.G. VACCINATION

In January children born in 1956 were offered B.C.G. at Arbroath High School, Arbroath Academy and Brechin High School to complete the B.C.G. Vaccination programme for the school session ending 31st July, 1970. In November and December 1970 all children born in 1957 were offered B.C.G. vaccination at their schools.

Numbers tested and vaccinated in 1970:-

School	Tested	No. Negative	%	No. Vaccinated
Arbroath Academy	33	32	97.0	32
Arbroath High	105	98	93.3	97
Brechin High	240	234	97.5	212
Forfar Academy	206	198	96.1	192
Webster's High	91	91	100	89
Montrose Academy	129	128	99.2	121
Carnoustie	96	90	93.8	88
Friockheim	23	21	91.3	21
Murroes	16	15	93.8	14
Newtyle	55	54	98.2	52
Totals	994	961	96.7	918

The figures shown in the above table for Arbroath Academy and Arbroath High School refer only to children resident in the County. Pupils attending these schools and resident in Arbroath Burgh were dealt with by Dr. Sheila Tocher, Medical Officer of Health, Arbroath, as follows:-

School	Tested	No. Negative	%	No. Vaccinated
Arbroath Academy	231	214	92.6	201
Arbroath High	299	284	94.9	273

### COMPARATIVE TABLE

Total No. given B.C.G. Vaccination (including Arbroath Burgh Children)

1970	1969	1968
1392	630	762

Of the 25 children who gave a positive reaction to the preliminary Mantoux Skin Test, 24 attended the nearest Chest Clinic or M.M.R. Unit for Chest X-ray. In all of those there was no evidence of active disease. The remaining girl had already had B.C.G. vaccination done which accounted for her positive skin test.

## MASS MINIATURE RADIOGRAPHY AND OTHER CHEST X-RAYS

Mass Miniature Radiography is arranged every third year for all teachers and other members of schools' staff, for example janitors, auxiliaries and school meals attendants. At the same time members of the Public Health and Social Work Departments and members of the Education Department, not on schools' staff, who come in direct contact with children are requested to attend for chest X-rays. This did not fall due in 1970.

All new employees coming directly in contact with children are required to have chest X-rays, unless there is evidence that this has been done recently.

Similar rules are applied to Child Minders and regular staff of Play-groups registered with the Department of Social Work.

## CHIROPODY SCHEME

### TREATMENT OF PERSONS IN OLD AGE PENSIONER AGE GROUP AND CHRONICALLY SICK AND DISABLED GROUP

	1970	1969	1968
No. of persons treated	2778	2439	2437
No. of treatments given	11283	10864	9423

During 1970, the 4 Chiropodist employed by the County Council gave the following service:-

	Number of Patients and Place of Treatment			Total
	Clinic	Patients' Own Home	Welfare Homes	
Burgh of Arbroath	484	171	72	727
Montrose	102	116	50	268
Kirriemuir	89	133	17	239
Monifieth	57	58	—	115
Carnoustie	28	35	56	119
Brechin	82	150	43	275
Forfar	192	197	79	468
Landward Area	187	346	34	567
Total treated	1221	1206	351	2778
Discontinued	94	202	54	350
Patients receiving treatment as at 31st December, 1970	1127	1004	297	2428

As well as in each of the Burghs, including Arbroath, Clinics were held as before in public halls at Edzell, Muirhead, Ferryden and Tealing. The Chiropodists also held treatment sessions in the Duty Rooms of the District Nurses' houses at Letham, Glamis, Hillside Newtyle and Friockheim.

Regular visits were paid to all the Old People's Welfare Homes in the County, including those in Arbroath Burgh.

43.4% of patients were treated in their own homes. In the burghs treatment at home is given to those who are unfit to walk to the Clinics. In the rural areas home treatment is given because of lack of transport for patients to the nearest centre. Where there is no incapacity or transport difficulty cases are encouraged to go to the Clinics for treatment.

Number of chronically sick and disabled included in the above table:-

	Males	Females
Living in own home	8	15
Living in Welfare Home	8	14
Total	16	29

In December the Health Committee decided to appoint an additional Chiropodist.

### HOME HELP SERVICE

During 1970, 241 cases were provided with a Home Help, compared with 245 in 1969 and 233 in 1968.

Distribution as follows:-

	Aged over 65 years	Chronic Sick etc. Under 65 years
Burgh of Brechin	31	4
Carnoustie	10	4
Forfar	42	8
Kirriemuir	30	3
Monifieth	3	-
Montrose	56	7
Landward Area	39	4
Total	211	30

The 30 cases aged under 65 receiving Home Help were given assistance on account of:- Arthritis (2), Cerebro vascular disease (2), Bronchitis (2), Parkinson's Disease (1), Multiple sclerosis (6), Thrombo phlebitis (1), Cancer (1), Paralysis (3) Asthma (1), Blindness (2), Heart conditions (3), Acute sciatica (1), Convalescence after operation (2), Mental illness (1), General debility (1).

The majority of cases require the Home Help for from one to three hours daily, but without this assistance many would have to be admitted to a Welfare Home or Hospital.

### HANDICAPPED REGISTER AND HANDICAPPED CHILDREN

This is a Register of children from birth up to the age of 16 years who are physically or mentally handicapped. The Register records the handicap and other details including the type of treatment and education or training being given or required. At the end of 1970 there were on the Register



130 children (70 boys and 60 girls) in Angus excluding those in the Burgh of Arbroath. The Arbroath Handicapped Register is kept by the Arbroath Medical Officer of Health with whom the Angus School Medical Service exchanges information, for example in the case of pre-school children who must be assessed to decide whether they are suitable for ordinary or special education on account of physical or mental disability. There were 36 children, 18 boys and 18 girls on the Arbroath Burgh Handicapped Register at the end of 1970.

At the end of the school session on 31st July, 1970 there were 28 handicapped children in Special Schools outwith Angus. Of those four were days pupils at Fairmuir Special School, Dundee, and nine were at Dundee School for the Deaf. There were seriously handicapped spastic children from Angus at Westerlea School, Edinburgh and Stanmore House, Lanark; Orthopaedic cases at Trefoil School, Edinburgh; emotionally disturbed children at Linn Moor, Aberdeenshire, Lady Mary School, Edinburgh and Lendrick Muir School, Kinross-shire. There was also a pupil at Condover Hall, Shrewsbury, (for the Deaf and Blind children) and at the Royal Blind School, Edinburgh. During the school holidays each of these children was visited for assessment purposes at home by one of the Medical Officers in this Department.

Among handicapped children who attended ordinary day schools in Angus were three severely handicapped cases of spina bifida.

## HANDICAPPED REGISTER — ANGUS

Number on Register as at 31st December, 1970

## Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 and over	Total
Partially Deaf	M	-	-	-	1	-	-	2	-	3
	F	-	-	-	-	-	2	2	-	4
Partially Sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	1	1
Mental Defect - Educable	M	-	-	-	-	-	-	10	2	12
	F	-	-	-	-	-	-	9	3	12
Mental Defect - Trainable	M	-	-	-	-	2	3	3	-	8
	F	-	-	-	-	-	3	9	1	13
Mental Defect - Not Trainable	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	2	-	2
Mental Defect - Undetermined	M	-	1	1	-	1	6	3	-	12
	F	-	-	-	-	-	3	-	-	3
Brain Damage Cerebral Palsy	M	-	-	1	-	1	3	3	-	8
	F	-	-	-	-	-	-	2	2	4
Other Brain Damage	M	-	-	1	-	-	-	1	-	2
	F	-	1	-	1	-	1	1	-	4
Epilepsy	M	-	-	-	-	-	1	1	-	2
	F	-	-	-	-	-	-	2	-	2
Spina Bifida/Hydrocephalus	M	-	-	-	-	-	1	-	-	1
	F	-	-	1	-	-	1	2	-	4
Neuro-Psychiatric Defect	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Deformity of Lower Limb(s)	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Heart Disease	M	-	-	-	1	-	-	2	-	3
	F	-	-	1	1	1	-	-	-	3
Diabetes	M	-	-	-	-	-	3	4	-	7
	F	-	-	-	-	-	-	-	-	-
Other Metabolic Conditions	M	-	-	-	1	-	-	-	-	1
	F	-	-	1	-	-	-	-	-	1
Other	M	-	-	3	2	-	2	2	1	10
	F	-	-	1	1	1	3	-	-	6
Total	M	-	1	6	5	4	20	31	3	70
	F	-	1	4	3	2	14	29	7	60

## HANDICAPPED REGISTER — ARBROATH

Number on Register at 31st December, 1970

## Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 and over	Total
Partially Deaf	M	-	-	-	1	-	2	-	1	4
	F	-	-	-	-	-	1	1	-	2
Partially sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Mental Defect - Educable	M	-	-	-	-	-	1	3	-	4
	F	-	-	-	-	-	-	5	1	6
Mental Defect - Trainable	M	-	-	-	-	-	3	3	-	6
	F	-	-	-	-	-	-	-	2	2
Brain Damage Cerebral Palsy	M	-	-	-	-	-	-	-	1	1
	F	-	-	-	-	-	1	2	-	3
Spina Bifida/ Hydroce- phalus	M	-	-	-	1	-	-	-	-	1
	F	-	-	-	1	1	-	-	-	2
Spinal Defect (not S. Bifida)	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Paralysis	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Heart Disease	M	-	-	-	1	-	1	-	-	2
	F	-	-	-	-	-	-	-	-	-
Total	M	-	-	-	3	-	7	6	2	18
	F	-	-	-	1	1	4	9	3	18

CERVICAL CYTOLOGY

This service continued as before. The number of Clinics held, women attending and smear results are shown in the following table:-

	No. of Clinics	No. of Women Attending	No. of Positive Smears
Brechin	2	16	-
Carnoustie	7	37	-
Forfar	7	69	1
Monifieth	1	12	-
Montrose	13	144	-
Total	30	278	1

The number of positive smears is 0.36% of women attending.

## HEALTH EDUCATION

An account of the formal Health Education done in schools by the School Medical Officers and Health Visitors is contained in the School Medical Service Section of this Report. Informal Health Education is constantly included in the duties of the Medical Officers and Nurses.

In April 1970 Angus Public Health Department took part in the "Spring Clean for Safety Campaign" organised throughout Scotland by the Scottish Health Education Unit. This was to encourage the public to dispose safely of all old pills, tablets and medicines no longer in use but hoarded at home and potentially dangerous, and also to inculcate into the public an appreciation of the risks of accidental poisoning from medicines and drugs kept casually about the house. The local pharmacists in the County and the police participated. District Nurses and Health Visitors explained the objects of the campaign when visiting and at Clinics, and collected medicines particularly from the elderly and house-bound. (Many of the nurses always do this in the course of their work.) Advertising material was provided by the Scottish Health Education Unit. The Burgh Surveyors were very helpful in displaying posters and leaflets, and in arranging for the safe disposal and destruction of the medicines etc.

The danger from weed-killers and fertilisers was also pointed out in the campaign. The S.H.E.U. provided attractive wall-sheets, which were given to the schools for display, warning of the dangers from poisonous berries and plants.

## INFECTIOUS DISEASES

### NOTIFIABLE DISEASES

During 1970 there were 661 cases of notifiable infectious diseases. This is an increase of 252 on the 1969 total. This increase is accounted for largely by 193 more notifications of measles.

Disease	1970	1969
Anthrax	-	2
Cerebro-Spinal Fever	2	1
Dysentery	50	31
Erysipelas	4	6
Food Poisoning	19	3
Hepatitis, Viral Infectious	28	47
Influenzal Pneumonia	9	3
Malaria	2	1
Measles	431	238
Pneumonia, acute primary	37	15
Scarlet Fever	49	54
Whooping Cough	30	8
Total	661	409

One of the cases of cerebro-spinal fever was fatal – a girl of 13 years on holiday in Angus from Fife.

The distribution of the dysentery cases was:- Carnoustie 1, Forfar 2, Montrose 9, Landward Area 38.

In Montrose the 9 cases all occurred in September and were confined to three households with young families who were in frequent close contact with each other. Of the 38 cases in the landward area, 24 occurred in Strathmartine Hospital, a hospital for mental defectives.

The distribution of Viral Infectious Hepatitis was:- Brechin 2, Carnoustie 5, Kirriemuir 1, Monifieth 4, Montrose 3, Landward area 13. Of the total number of cases 2 apparently contracted the infection outwith the County.

During 1970 there were 2 outbreaks of Salmonella (Food Poisoning) Infection. Both were due to Salmonella Typhimurium which is the most common of the Salmonella Group causing food-poisoning in this country.

The first was in February, on a farm in the west of the County. The farmer, pigman and three of the farmer's children were affected.

Age and sex distribution of cases:-

	Age in Years		
Males	52 :	48 :	10/12
Females	8 :	6 :	

The cause of infection was probably accidental contamination from the pigs, in the case of the youngest child passed indirectly to him by one of the older patients. There were no cattle on the farm. Specimens from contacts, including school-fellows of the children, from a pig and from the pig meal were all bacteriologically negative. The Salmonella Typhimurium causing the illness was Phage Type U180.

The second outbreak was in the late autumn. The source of the outbreak was Premium milk, produced and retailed by a farmer in the south of the County. In Angus there were 14 confirmed cases among 60 cases of diarrhoea considered to have the same origin. The milk was pasteurised for 3 weeks. Infection was brought into the herd by a cow which came from another area and which was disposed of. Bacteriological examination of the other cattle and of their milk was negative. The milk handlers were all healthy, clinically and bacteriologically.

Age and sex distribution of cases:-

	Age in Years				
	Under 1	1 - 2	3 - 5	6 - 8	30 - 55
Males	2	2	5	-	3
Females	-	1	-	1	-

The Salmonella Typhimurium in this outbreak was Phage Type 32.



There was one other isolated case in the county – a farmer in the north of the county. The source of his infection was not determined. The Phage type was U 121.

## NON NOTIFIABLE COMMUNICABLE DISEASES

### BRUCELLOSIS

At the end of 1970 there were 17 known cases of brucellosis living in Angus. 12 of these were probably infected by direct contact (though milk-borne infection was possible) as they were either farmers, farm workers, persons living on farms or veterinary surgeons. The other 5 had no contact with cattle and were apparently infected by drinking unpasteurised milk. The source was investigated by a Public Health doctor visiting the patients' homes. It was thought that all the milk-borne cases were infected in Angus, as were most of the occupational cases. There were known to be cases also in Dundee and Arbroath whose source of infection seems to have been milk from producers or dealers in Angus.

The symptoms varied widely and included bone abscesses in children, lung conditions, depression, irritability or apathy to a degree seriously affecting domestic or business life, and bouts of feverishness with aching, tiredness and severe night sweats. The nature of the symptoms may result in the condition not being diagnosed, but it is expected that more cases will come to light with the increased use of blood tests.

Though the Angus sample is small it indicates that pasteurisation of milk will not eradicate the disease in humans, as approximately twice as many cases were due to direct contact as were due to drinking raw milk.

Investigation into the incidence in dairy herds is hampered because the milk culture test is not available to the Medical Officer of Health.

### VENEREAL DISEASE

There was an increase in the number of cases of venereal disease in 1970, compared with 1969.

Comparative tables for five years are:-

	Syphilis Acquired	Syphilis Congenital	Gonorrhoea of Genital Tract.	Other Venereal Conditions	Total
1966	-	-	12	36	48
1967	-	-	8	24	32
1968	-	-	18	34	52
1969	-	-	15	18	33
1970	1	-	18	35	54

### MENTAL HEALTH

There were 16 mental defectives under Statutory Guardianship in 1970, 6 of whom were under the guardianship of the Local Authority.

74 home visits were paid during the year by the medical staff and 815 by the nursing staff.

During the year there were 12 clinic sessions held in the County at which 61 mental defectives were seen on 69 occasions by a specialist in mental deficiency of the Eastern Regional Hospital Board. Of the 61 cases 8 were seen for the first time.

## FOOD SUPPLIES

Details of the work done in relation to the administration of the various Acts, Orders, and Bye-laws will be found in the report by the County Sanitary Inspector.

## PORT HEALTH ADMINISTRATION

During the year 121 foreign vessels arrived at Montrose from foreign ports with cargoes of:- General mixed cargo 41, Fertiliser 18, Empty Boxes 14, Flax 10, Salt 6, Timber 4, Wood pulp 4, Onions 4, Frozen Fish 4, Jute 2, Basic slag 2, Paper 1, Pumice 1, Starch 1, Empty barrels 1, Bacon 1, Aluminium 1, Talcum powder 1, Grit 2, Light in ballast 3. All had a clean bill of health.

## FACTORIES ACTS, 1937-1959

These Acts are administered by the Town Council of the Burghs and the County Council in respect of the landward area. The sections of the Acts which concern local authorities are those dealing with cleanliness, overcrowding, temperature and ventilation, drainage of floor area and sanitary conveniences.

In regard to these matters the inspections are carried out by the Burgh Surveyor/Sanitary Inspectors in the Burghs, and in the landward area by the County Sanitary Staff.

Annually the Medical Officer of Health is required to make a return regarding the number of factories in his area, visits paid and defects noted and how remedied. The following is the return for 1970 and in respect of the 7 areas under my jurisdiction.

Factories in each area (no. of Visits paid in 1970 in brackets)

	Brechin, Carnoustie, Forfar, Kirriemuir, Montrose, Monifieth, Landward						
1. Factories in which sections 1, 2, 3, 4 and 6, are enforced by Local Authority	19(13)	13 (7)	5(3)	17(17)	85(11)	15 (4)	4(2)
2. Factories not included in (1) in which section 7 is enforced by Local Authority	42(23)	25(10)	82(35)	26(26)	-	-	121(55)
3. Other premises in which section 7 is enforced by Local Authority	2(1)	-	-	-	-	-	1(3)
	63(37)	38(17)	87(38)	43(43)	85(11)	15(4)	126(60)

BRECHIN BURGH No defects were noted in the factories inspected in 1970.

CARNOUSTIE BURGH No defects were noted in the factories inspected in 1970.

FORFAR BURGH No defects were noted in the factories inspected in 1970.

KIRRIEMUIR BURGH In 1 case the standard of cleanliness was unsatisfactory and this was remedied.

MONTROSE BURGH In 2 cases the standard of cleanliness was unsatisfactory and this was remedied.

MONIFIETH BURGH No defects were noted in the factories inspected in 1970.

LANDWARD AREA In 5 cases the standard of cleanliness was unsatisfactory and this was remedied. In 1 case a written notice was sent after inspection for purposes of provisions as to health.

### BURGH OF BRECHIN

For the year 1970 the Registrar General has estimated the mid-year population for the burgh to be 6735 which compares with 7114 in the 1961 census. During the year 90 live births were allocated to the Burgh. There were 7 illegitimate births and 2 still births in 1970.

Marriages registered numbered 82. Deaths corrected for residence in the burgh numbered 110. The chief causes of death were Heart Disease 44, Cancer 23 (lung cancer 6), Cerebrovascular disease 18, Diabetes 2. Of the 110 deaths 89 persons were over the age of 65 years at time of death. Infant deaths (under 1) numbered 1.

During the year there were 30 cases of notifiable infectious diseases notified and confirmed, Measles 23, Scarlet Fever, 3 Viral-Infectious Hepatitis 2, Acute Primary Pneumonia 1, Pulmonary Tuberculosis 1.

### BURGH OF CARNOUSTIE

For the year 1970 the Registrar General has estimated the mid-year population of the burgh to be 5753 which compares with 5511 at the time of the 1961 census. The number of live births allocated to the Burgh was 90. There were 3 illegitimate births and no still births.

Marriages registered numbered 39. Deaths corrected for residence in the burgh numbered 94. The chief causes of death were Heart-Disease 34, Cancer 17 (lung cancer 2), Cerebrovascular Disease 9, and Diabetes 1. There was 1 death following an accident in the home. Of the 94 deaths 68 persons were over the age of 65 years at time of death. There was 1 infant death in 1970.



During the year there were 27 cases of notifiable infectious diseases notified and confirmed Measles 16, Viral infectious Hepatitis 5, Acute Primary Pneumonia 2, Acute Influenzal Pneumonia 1, Dysentery 1, Scarlet Fever 1, Pulmonary Tuberculosis 1.

### **BURGH OF FORFAR**

For the year 1970 the Registrar General has estimated the mid-year population of the burgh to be 10066 which compares with the 1961 census population of 10252. The number of live births allocated to the Burgh was 148. There were 11 illegitimate births and 3 still births during the year.

Marriages registered numbered 90. Deaths corrected for residence in the burgh numbered 150. The chief causes of death were Heart Disease 46, Cancer 26 (lung cancer 6), Cerebrovascular disease 18 and Diabetes 6. There was 1 death following an accident in the home. Of the 150 deaths 117 persons were over the age of 65 years at time of death. There were 2 deaths in children under 1 year.

During 1970 there were 155 cases of infectious diseases notified and confirmed, Measles 103, Scarlet Fever 28, Whooping Cough 9, Acute Primary Pneumonia 3, Acute Influenzal Pneumonia 3, Dysentery 2, Pulmonary Tuberculosis 2, Non-pulmonary Tuberculosis 1, Food poisoning 1, Cerebrospinal Fever 1, Malaria 1, Erysipelas 1.

### **BURGH OF KIRRIEMUIR**

For the year 1970 the Registrar General has estimated the mid-year population of the burgh to be 4107 which compares with the 1961 census population was 3245. The number of live births allocated to the burgh was 66. There were 2 illegitimate births and 2 still births in 1970.

Marriages registered during the year numbered 41. Deaths corrected for residence numbered 78. The chief causes of death were Heart Disease 20, Cancer 18 (lung cancer 7), Cerebrovascular Disease 21. There was 1 death following an accident in the home. Of the 78 deaths 62 persons were over the age of 65 years at time of death. There were no infant deaths in 1970.

During the year there were 4 cases of infectious diseases notified and confirmed, Acute Primary Pneumonia 3, Viral Infectious Hepatitis 1.

### **BURGH OF MONIFIETH**

For the year 1970 the Registrar General estimated the mid-year population of the burgh to be 5541 which compares with the 1961 census population of 3475. During the year there were 136 births allocated to the burgh. There were 2 illegitimate births and no still births during the year.

Marriages registered numbered 40. Deaths corrected for residence in the burgh, numbered 52. The chief causes of death were Heart - Disease 23, Cancer 14 (lung cancer 2), Cerebrovascular Disease 4, Diabetes 1. There was 1 death in children under 1 year. Of the 52 deaths 36 persons were over the age of 65 years at time of death. There were no deaths from accidents in the home.

During the year there were 109 cases of infectious diseases notified and confirmed, Measles 90, Whooping Cough 8, Viral Infectious Hepatitis 4, Acute Primary Pneumonia 3, Pulmonary Tuberculosis 2, Malaria 1, Scarlet Fever 1.

### BURGH OF MONTROSE

For the year 1970 the Registrar General has estimated the mid-year population of the burgh to be 10117 which compares with the 1961 census population of 10702. Live births allocated to the burgh in 1970 numbered 151. There were 9 illegitimate births and 2 still births during the year.

Marriages registered numbered 106. Deaths corrected for residence in the burgh numbered 182. The chief causes of death were Heart - Disease 62, Cancer 41 (lung cancer 9), Cerebrovascular Disease 17. There were 5 deaths following accidents in the home. 4 children died under the age of 1 year. Of the 182 deaths 137 persons were over the age of 65 years at time of death.

During the year there were 18 cases of infectious diseases notified and confirmed, Dysentery 9, Whooping Cough 3, Viral Infectious Hepatitis 3, Pneumonia 1, Pulmonary Tuberculosis 1, Scarlet Fever.1.

## SCHOOL MEDICAL SERVICE

### Report for the Year Ending 31st July, 1970

#### GENERAL STATISTICS

The population of the area of the Education Authority including the Large Burgh of Arbroath (21,632) at 31st December, 1969, was 95,300.

#### Number of Schools

(a) Primary (including Primary Departments of Secondary Schools	...	...	...	85
(b) Secondary — Junior	...	...	...	6
(c) — Senior	...	...	...	6
(d) Special Schools (Junior Occupation Centres)	...			2
(e) Special Classes in Ordinary Schools	...	...		7
(f) Classes for Retarded Pupils in Ordinary Schools				3
Number of Children on Registers	...	...	...	15,785
Number of Children in Average Attendance		...	...	14,836 94%.

#### A. ORGANISATION AND ADMINISTRATION

There has been no change in the organisation and administration of the Service since it was last detailed.

All Schools in the County were visited for routine Medical Inspection of Children in certain age-groups as required by the Scottish Home and Health Department.

This session the children given Systematic Medical Inspection were:

- (a) Entrants - i.e. all children starting school (at the age of five approximately)
- (b) School Leavers - i.e. all children born during the year, 1956 (approximately 13 years old at the time of inspection).

In addition to these examinations, children who had previously missed examination with their age-groups, because of absence or because of moving from another area, were also given a full medical examination.

Children of all ages who had been found at a previous examination to be suffering from defects were examined in respect of these defects. The vision and hearing of all children born in 1962 and 1960 were tested.

Special visits were paid to schools for such purposes as the investigation of infectious diseases, examination of physical and mental defects with regard to the child's suitability for education in an ordinary school or admission to a special school, such as a school for the blind, deaf, epileptic, cripple or mentally retarded etc. Children on whose behalf requests for transport to school were made by their parents or guardians to the Director of Education were also seen. Examination of children for other specific purposes was undertaken, e.g. because of prolonged or frequent absence from school without apparent reason. A number of children were seen at special visits at the request of head teachers. In most of these cases a visit or visits to the homes were necessary and many of the preliminary examinations were done in the pupils' homes.

The number of parents attending the medical examination continues to increase especially those of children in the entrant age-group. In many cases, this contact is invaluable and often serves as a continuous link with the pre-school child welfare clinic service. Good liaison with teachers continues in all schools.

### COLOUR BLINDNESS

All thirteen year old children were, as in previous years, tested for colour blindness using Ishihara Plates. The Headmasters were notified of children who were colour blind, and the condition was explained to the colour blind pupil, including an explanation that he would not be accepted in certain occupations.

### ENTRANTS' VISION TESTING

This continues to be done as detailed in previous reports. The importance of this test is to detect visual defects at an early age, as certain defects are not amenable to treatment later, and also because defective vision may be a handicap to scholastic progress.

### B.C.G. VACCINATION

In November and December, 1969 and in January, 1970, B.C.G. vaccination against tuberculosis was offered to all children born in 1956. As B.C.G. vaccination is a Local Health Authority function the B.C.G. vaccination of Arbroath Burgh Children is undertaken by the Arbroath Medical Officer of Health. In all, 765 children were skin-tested, and 754 gave a negative reaction, of whom 716 were given B.C.G. vaccination. X-ray examinations of the chest were arranged for children who showed a positive reaction. Details of the Vaccination Scheme are included in the Annual Report of the Medical Officer of Health.

### POLIOMYELITIS AND DIPHTHERIA/TETANUS IMMUNISATION

This is also a function of the County Council as Local Health Authority, but use is made of the School Medical Service to offer immunisation against both poliomyelitis and diphtheria/tetanus through the schools. Details of these immunisations are given in the Annual Report of the Medical Officer of Health.

### B. SANITARY CONDITIONS & BUILDINGS

When each school was visited for the Annual Systematic Medical Inspection of the Pupils, the buildings were seen and any major defects discussed with the Head Teacher.



### C. MINOR AILMENTS CLINICS

Clinics were held by the Medical Staff weekly in the Burghs of Forfar, Arbroath, Montrose and Brechin. The Medical Officers saw children at the request of their parents and teachers, as well as a number of children who had been found at School Medical Inspection to require further investigation or surveillance. The majority of the children were accompanied by their parents. Treatment in some cases was given for Minor Ailments, especially those of a contagious nature. These Clinics were also used for the medical assessment of pre-school children who might require special education.

### TREATMENT OF MINOR AILMENTS ETC'

The following table gives details of the cases attending the clinics held by School Medical Officers in Arbroath, Forfar, Brechin and Montrose and of those treated by the nursing staff in the rural area.

	BURGH		RURAL	
	No. of Cases	No. of Treatments	No. of Cases	No. of Treatments
Special Cases, Minor Ailments etc.	89	131	127	350
Skin Conditions —				
Ringworm of Scalp	-	-	2	26
Ringworm of Face	-	-	-	-
Ringworm of Body	1	4	4	15
Scabies	34	61	34	73
Impetigo	22	47	13	41
	146	243	180	505

### D. NURSERY SCHOOLS

There are no Nursery Schools in the County. Private play-groups are now the responsibility of the Social Work Department.

### E. PERSONAL HYGIENE

School Nurses and Health visitors continue to visit schools monthly regarding cleanliness of school children. Where necessary home visits are carried out on children found to be verminous. Special visits are also paid in connection with certain contagious diseases. See table



# WORK DONE BY NURSING STAFF IN SCHOOL MEDICAL SERVICE

	No. of Children seen	No. of visits to schools	Unsatisfactory cleanliness Bad Clothing & Footwear	Vermin Body Head	Nits	Plantar Warts	Ringworm	Scabies	
Burgh Schools	35,582	602	63	-	28	137	177	3	60
Rural Schools	19,163	461	61	-	18	53	30	4	25
Total	54,745	1,063	124	-	46	190	207	7	85

## NUMBER OF NOTICES SENT TO PARENTS

	Vermin			Unsatisfactory cleanliness Bad Clothing & Footwear	Scabies	Home Visits
	Body	Head	Nits			
Burgh Schools	-	9	64	23	18	743
Rurals Schools	-	15	30	13	9	242
Total	-	24	94	36	27	985

## F. HEALTH EDUCATION

In June, two of the Departmental Medical Officers and the Deputy Nursing Superintendent carried through a programme of health education in schools, showing films, lecturing and answering questions (verbal and written). The subjects included personal hygiene and the dangers of smoking, alcoholism, venereal disease and drugs. The pupils who received the lectures were in the main those who were about to leave school or those leaving within the next year. The Departmental Officers in their lectures stressed the dangers to health inherent in indulging in smoking, alcohol, permissive sex and drugs. Personal hygiene was dealt with by the Deputy Nursing Superintendent.

During the session, the Medical Officers and Health Visitors took every opportunity of furthering the Health Education of children of all ages.

## G. RESEARCH

No research programmes were carried out this year.

## H. SPECIALIST SERVICE

Specialist Clinics were held in the Burghs of Forfar, Arbroath, Montrose and Brechin for Ophthalmic, Orthopaedic and Mental conditions. The Specialists at these Clinics were provided by the Eastern Regional Hospital Board and the Clinics were organised by the County Council's Medical Staff. Defects of the Ear, Nose and Throat were referred to the Specialists at the Out Patients' Departments at Forfar, Arbroath and Montrose Infirmaries and Stracathro Hospital. Children with eye defects living near Dundee were referred to the School Eye Clinics held at Dundee Eye Institution for Angus children, and those living near Dundee with Ear Nose and Throat Defects were seen at Dundee Royal Infirmary. Children throughout the County were also referred to the Child Psychiatrist, Dundee Royal Infirmary, when necessary.

Children who were found to be deaf or were suspected of being deaf were referred to the Speech and Hearing Assessment Clinic at Dundee Royal Infirmary.

## DETAILS OF CLINICS

### EYE CLINICS

These were held as follows:-

Arbroath	- Public Health Clinic, 7 Hill Street	Two of three times a week as required, either at 9.30 a.m. or in the afternoon.
Brechin	- Damacre School Clinic	Thursday at 9.30 a.m. as required.
Dundee	- Dundee Eye Institution	One or two clinics a month as required, on Thursday, at 9.30 p.m.
Forfar	- Ravenswood Clinic	Once or twice a week as required either at 9.30 a.m. or 1.45 p.m.
Montrose	- Esk House Clinic	Two or three times a month as required, either at 9.30 a.m. or 1.45 p.m.

As mentioned earlier in this report these Clinics are staffed by the Eye Specialists provided by the Eastern Regional Hospital Board.

The following table gives details of children referred during the year.

No. of appointments made	...	...	...	2,517
No. of absentees	...	...	...	458
No. of examinations carried out	...	...	...	2,059
No. of children called to clinics	...	...	...	1,454
No. of absentees	...	...	...	154
No. of children in attendance at Clinics	...	...	...	1,300
No. of children referred from these Clinics for hospital and other treatment	...	...	...	30
No. of children for operation	...	...	...	13

The number of absentees includes those children whose parents elected to take them to their family doctors to arrange treatment privately. Children who did not attend because of illness or other unavoidable circumstances were given a further appointment.

#### EAR, NOSE AND THROAT CLINICS

Cases were referred to the Ear Nose and Throat Consultants at Forfar, Dundee, Montrose and Arbroath Infirmarys and at Stracathro Hospital. The cases were called in by appointment.

Number of children whose parents were notified of child's defect of the Ear, Nose and Throat	...	...	33
Number referred to Consultants	...	...	21
Number given treatment at Hospital	...	...	20

#### SPEECH AND HEARING ASSESSMENT CLINIC

This Clinic is held by an Ear, Nose and Throat Specialist at Dundee Royal Infirmary for children in the Region. Children are referred for the assessment of their hearing and for treatment of any disability found. Whether the child can be educated at an ordinary school or at a School for the Deaf (usually Dundee School for the Deaf) is considered by the Specialist and discussed with a panel, which includes one of the doctors from the School Medical Service and the Educational Psychologist. The advice of other Specialists is obtained when required. Old cases are also periodically reviewed in the same way.

No new cases were seen during the school year.

## ORTHOPAEDIC CLINICS

These Specialist Clinics were held at the Clinic, 7 Hill Street, Arbroath and Ravenswood, Forfar. All cases were seen by appointment. The Arbroath Clinics were held on one day a week on the first, third and fourth weeks of each month at 9.30 a.m. The Forfar Clinics were held at the same time on the second and fifth (when five a month) Tuesday of each month. Children residing in the Montrose and Brechin areas were called to the local Infirmary. Those living in the Dundee area were seen at Kemback Street Clinic. Those living near the Perthshire boundary were seen at Clinics in Coupar Angus or Blairgowrie, by the arrangement with the Perth Hospital Group.

In addition to the Specialist Clinics, physiotherapy treatment sessions were held weekly in Arbroath Clinic on Tuesday afternoons and all day on Friday and in Forfar on Wednesdays.

	Arbroath/ Forfar		Dundee	Perth Hospitals	Brechin/ Montrose	Total
Cases seen by Consultants	577/294		34	8	44/19	976
Cases recommended for Physiotherapy	116/ 78		6	1	9/ 3	213
Cases recommended for Hospital Treatment	15/ 5		9	-	-/ 1	30
Cases admitted to Hospital	15/ 5		-	2	-/ 1	23

## MENTAL DEFICIENCY

Clinics for mental defectives were held at one of the following Clinics as required:-

Arbroath	-	7 Hill Street
Brechin	-	Damacre Clinic
Carnoustie	-	18 High Street
Forfar	-	Ravenswood Clinic
Monifieth	-	Seaview Clinic
Montrose	-	Esk House.

During the year 14 children of school age were examined at these Clinics by a Specialist in Mental Deficiency from Strathmartine Hospital.

## EDUCATIONAL PSYCHOLOGIST

During the session 16 new cases were referred by the School Medical Service. One other case was referred to a Child Psychiatrist.

## SPEECH THERAPIST

During the session 7 new cases were referred by the School Medical Service. As the County had no Speech Therapist during the session the children's names were put on the waiting list. The total number of



children found at School Medical Inspection to require Speech Therapy, including these new cases, was 106.

### REFERRAL TO GENERAL PRACTITIONERS

During the session 31 children were referred by the School Medical Service to their family doctors for treatment.

### B. SYSTEM AND EXTENT OF DENTAL INSPECTION AND TREATMENT

The Chief Dental Officer, Mr. D.N. Anderson, reports on the Dental Service as follows:-

#### SESSION 1969 - 70

I herewith submit my Report on the Dental Department for 1969-70.

One Dental Officer, Mr. J.P Mayo, L.D.S. resigned his appointment during the year and as the establishment of Dental Officers was increased to six in May, 1970, there were two vacant Dental appointments at the end of the year.

The Issue of Dental Health Packs to new School Entrants was continued this year and Dental Health talks were given at School Dental Inspections. The Scottish Council for Health Education ran a short campaign in the press and on television in January, 1970, to encourage the 15-21 age group to make use of the free dental treatment available and supplied Local Authorities with posters, leaflets and plastic cards with a decimal conversion table on one side and a dental slogan on the other side. The Dental Officers co-operated by issuing these posters and cards.

New items of dental equipment were supplied during the year for Brechin Clinic, the remaining items of equipment required for this clinic will be requested when the new Brechin Health Centre is built.

In addition to the treatment of school children, maternity and child welfare patients, treatment was given to pupils attending Senior Occupation Centres.

The statistics of treatment are appended and show that approximately 78% of all school pupils were inspected this year and that approximately half of the children who had dental defects were treated by the School Dental Officers.

(Sgd.) D. N. ANDERSON,  
Chief Dental Officer.



# DENTAL STATISTICS 1968-69

DENTAL STATISTICS 1968-69		Number Inspected and Treated
	Number of Schools	
Primary (Including Primary Dept. of Secondary Schools)	85	79½
Secondary — Junior	6	6
Senior	6	4

## SYSTEMATIC INSPECTION AND TREATMENT

(1) Number of children and ages inspected by Dental Officers

Age	Systematic Inspection	Emergency	Total
Pre-School	20	16	36
5	1479	28	1507
6	1382	21	1403
7	1404	24	1428
8	1255	30	1285
9	1279	13	1292
10	1239	19	1258
11	1313	7	1320
12	807	9	816
13	694	15	709
14	690	5	695
15	491	9	500
16	309	4	313
17	146	2	148
	12488	186	12674

(2) Number of Children found to require Treatment	...	...	6865
Emergency	...	...	186
(3) Number of Children actually treated	...	...	3497
Emergency	...	...	186
(4) Number of attendances for treatment	...	...	10008
Emergency	...	...	231
(5) Number of Fillings in Permanent Teeth	...	...	9026
Number of Fillings in Temporary Teeth	...	...	2291
(6) Number of Permanent Extractions	...	...	493
Emergency	...	...	32
Number of Temporary Extractions	...	...	1809
Emergency	...	...	147
(7) Number of Cases of General Anaesthetic	...	...	9
Emergency	...	...	8

(8) Number of other operations in Permanent Teeth	...	...	1967
Emergency	...	...	36
Number of other operations in Temporary Teeth	...	...	741
Emergency	...	...	17
(9) Number of Dentures supplied — Part	...	...	40
Full	...	...	4
Number of Dentures repaired	...	...	3
Number of Crowns fitted	...	...	10
Number of Inlays inserted	...	...	17
(10) Ante and Post Natal Cases -			
Number of Cases	...	...	5
Number of Dentures supplied	...	...	2
Number of Fillings in Permanent Teeth	...	...	17
Number of Extractions of Permanent Teeth	...	...	1
Number of Other Operations in Permanent Teeth	...	...	6
Number of Sessions	...	...	3
(11) Pre-School Cases -			
Number of Cases	...	...	36
Number of Fillings in Temporary Teeth	...	...	45
Number of Extractions of Temporary Teeth	...	...	32
Number of Other Operations in Temporary Teeth	...	...	26
Number of Cases of General Anaesthetic	...	...	2
Number of Sessions	...	...	11
(12) Orthodontic Treatment			
New Cases diagnosed and periodically seen by the Regional Hospital Board Orthodontist	...	...	41
Cases treated by School Dental Officers			
(1) Number of cases continuing from previous year	...	...	140
(2) Number of New Cases	...	...	94
(3) Number of Cases completed	...	...	84
(4) Number of Cases discontinued	...	...	20
(5) Number of Cases continuing at end of year	...	...	130
(6) Number of Attendances for treatment	...	...	1552
Details of Treatment —			
(1) Number of Appliances inserted	...	...	121
repaired	...	...	5
(2) Number of Extractions for Orthodontic purposes			
(a) Permanent Teeth	...	...	113
(b) Temporary Teeth	...	...	41
(3) Number of X-rays for Orthodontic purposes			
(a) Intra-Oral	...	...	280
(b) Extra-Oral	...	...	43

## (13) Senior Occupation Centres

Number of Patients treated	...	...	...	...	9
Number of Fillings in Permanent Teeth	...	...	...	...	1
Number of Extractions of Permanent Teeth	...	...	...	...	20
Number of Other Operations in Permanent Teeth	...	...	...	...	3
Number of Dentures supplied	...	...	...	...	5

## (14) Sessions

Number of Half-days devoted to Inspection	...	...	...	140½
Number of Half-days devoted to Treatment	...	...	...	1668
Number of Half-days lost due to Illness	...	...	...	93
Number of Half-days devoted to Orthodontics	...	...	...	131
Number of Half-days devoted to Administration etc.	...	...	...	36½
Number of Half-days devoted to Dental Health Education	...	...	...	39
Number of Half-days devoted to Maternity & Child Welfare	...	...	...	14



TABLE II  
YEAR 1969/70  
SCHOOL HEALTH SERVICE  
Rates of Defects found per 100,000 Children Examined  
ANGUS

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Verruca	250	268	784	1,593
Athlete's Foot	-	-	784	885
Scabies	250	-	-	-
Other Infections	125	134	-	-
Neoplasms (including naevus)	-	402	-	-
Goitre	-	-	-	177
Diabetes	250	-	-	-
Underweight	250	402	-	-
Obesity	250	268	1,411	2,301
Endocrine Nutritional Metabolic disorder (with Coeliac Disease)	125	-	157	-
Haemophilia	125	-	-	-
Anaemia and other Blood disorders	-	-	-	177
Speech disorder	3,000	670	784	177
Enuresis etc.	1,000	1,072	470	-
Behaviour disorder	250	-	-	-
Borderline Mental Retardation	-	-	313	531
Mild Mental Retardation	-	-	313	-
Moderate Mental Retardation	-	-	157	-
Profound Mental Retardation	-	-	-	177
Epilepsy	125	134	157	354
Other diseases of Nervous System (including Cerebral Palsy)	125	-	157	177
Inflammatory conditions of Eye (including Stye)	-	-	157	177
Refractive error	3,250	3,619	7,367	7,434
Colour blindness	-	-	4,545	-
Strabismus	1,875	1,340	313	531
Blindness one eye	125	-	-	-
Other eye conditions	125	134	157	177
Inflammatory condition of ear	125	134	157	-
Wax in ear	375	268	-	177
Other conditions affecting ear	125	-	-	-
Deafness in both ears	125	-	-	-
Deafness in one ear	-	-	157	177
Impaired hearing one or both ears	625	670	784	531
Chilbains	-	-	-	885
Varicosities	-	-	-	177
Organic disease of Heart and Blood Vessels	125	-	-	-
Asthma	1,500	268	1,724	708
Enlarged tonsils	13,500	19,571	3,135	5,664
Hay-fever and other diseases of Resp. Syst. (including common cold and bronchitis)	4,625	6,568	313	885
Dental Caries	1,875	1,609	157	708
Other diseases of mouth	-	134	-	-
Disease of Digestive System	-	-	157	-
Hernia	250	134	-	-
Kidney Disease	-	-	157	-
Diseases of Genital Organ (including Hydrocele and Gynaecomastia)	125	-	157	177



Defect (continued)	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Infection of Skin (including boils)	-	134	157	-
Eczema	1,250	402	157	-
Acne	-	-	470	2,301
Other disease of skin (including corns, urticaria)	1,375	1,340	1,097	885
Osteochondrosis	125	-	313	-
Spinal curvature	125	-	627	1,062
Pes Planus	4,000	2,681	2,821	1,770
Hallux Valgus	125	-	157	-
Other minor deformities (including Knock Knee)	5,125	5,362	2,978	6,195
Other Orthopaedic conditions (including Wryneck)	375	-	-	177
Spina Bifida	-	-	-	177
Congenital anomalies of ear, face and neck	125	-	-	-
Congenital anomalies of heart	-	268	157	-
Cleft palate and cleft lip	-	-	-	177
Congenital anomalies of genital organs (including undescended testicles)	625	-	157	-
Congenital clubfoot	250	-	313	177
Other congenital anomalies of limbs system	125	134	313	-
Other congenital anomalies of musculo skeletal system (including funnel chest, pigeon chest)	625	268	313	177
Congenital anomalies of skin, hair and nails (including pigmented naevus)	250	804	-	354
Ill defined conditions - swollen glands	125	268	-	-
Ill defined conditions (including Syncope and "nerves")	-	134	157	-
Injuries	125	134	470	-

TABLE III

YEAR 1969/70

**SCHOOL HEALTH SERVICE**  
**Rates of Defects per 100,000 Examined by Social Class**  
**10% SAMPLE**  
**ANGUS**

Defect	ENTRANTS						LEAVERS							
	SOCIAL CLASS					Other or Not Stated	Total	SOCIAL CLASS					Other or Not Stated	Total
	1	2	3	4	5			1	2	3	4	5		
Verruca	Boys Girls	- -	- -	- -	- -	- -	- -	- -	14,286 -	- -	- -	- -	- -	1,389 -
Athlete's Foot	Boys Girls	- -	- -	- -	- -	- -	- -	- -	14,286 -	- -	- -	- -	- -	1,389 1,667
Scabies1	Boys Girls	- -	- -	2,564 -	- -	- -	1,235 -	- -	- -	4,167 -	- -	- -	- -	- -
Obesity	Boys Girls	- -	- -	- 3,448	- -	- -	- 1,316	- -	14,286 -	- -	- -	- 14,286	- -	1,389 1,667
Haemophilia	Boys Girls	- -	- -	- 5,556	- -	- -	1,235 -	- -	- -	- -	- -	- -	- -	- -
Speech Disorder	Boys Girls	- -	7,143 10,000	5,128 -	5,556 -	- -	4,938 1,316	- -	- -	- -	- -	- -	- -	- -
Enuresis etc.	Boys Girls	- -	- -	- 3,448	- -	- 12,500	- 2,632	- -	- -	- -	- -	- -	- -	- -
Refractive Error	Boys Girls	- 20,000	7,143 -	10,256 3,448	- 9,524	- 12,500	6,173 6,579	- -	- -	6,250 12,500	15,789 11,765	- 14,286	- -	6,944 10,000
Colour Blindness	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- -	3,125 -	10,526 -	14,286 -	- -	5,556 -
Strabismus	Boys Girls	50,000 -	- -	2,564 -	33,333 -	- -	3,704 -	- -	- -	- -	- -	- -	- -	- -



TABLE III (continued)

Defect	ENTRANTS						LEAVERS					
	SOCIAL CLASS					Total	SOCIAL CLASS				Total	Other or not Stated
	1	2	3	4	5		1	2	3	4	5	
Pes Planus Boys Girls	- -	14,286 -	5,128 -	- -	- -	7,407 -	- -	- -	6,250 -	10,526 -	- -	- -
Other minor deformities (including Knock Knee)	Boys Girls	- -	2,564 6,897	- 9,524	- -	1,235 7,895	- 50,000	- -	- 4,167	5,263 5,882	- -	16,667 -
Congenital anomalies of Genital organs (including undescended testicles)	Boys Girls	- -	2,564 -	- -	- -	1,235 -	- -	- -	- -	- -	- -	- -
Congenital clubfoot	Boys Girls	- -	- -	- -	- -	- -	- -	- -	3,125 -	- 5,882	- -	- -
Other congenital anomalies of limbs system	Boys Girls	- -	- -	- -	- -	- -	- -	- -	3,125 -	- -	- -	- -
Other congenital anomalies of musculo skeletal system (including funnel chest, pigeon chest)	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- -	- -	14,286 -	- -
Congenital anomalies of skin, hair and nails (including pigmented naevus)	Boys Girls	- -	- -	- 4,762	- -	1,316 -	- -	- -	- -	- -	- -	- -

TABLE IV

## SCHOOL HEALTH SERVICE

YEAR 1969

## NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY E. A. AREA AND SCOTLAND

LOCAL AUTHORITY	ENTRANTS						LEAVERS					
	BOYS			GIRLS			BOYS			GIRLS		
	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)
Aberdeen Burgh	1,340	43.39	43.82	1,271	43.01	42.24	1,377	60.83	98.98	1,171	60.83	104.34
Dundee	1,418	42.79	42.34	1,558	42.41	41.04	2,511	60.89	98.71	2,449	60.88	103.78
Edinburgh	3,359	42.97	42.62	3,052	42.73	41.72	960	63.49	112.92	919	61.83	113.47
Aberdeen County	1,171	43.65	43.96	1,097	43.21	43.06	638	60.89	101.32	565	60.99	106.68
Angus	800	43.76	44.24	746	43.51	43.04	354	61.45	99.01	339	61.34	105.18
Argyll	384	44.44	44.63	397	44.01	44.26	2,083	60.97	100.43	2,228	61.00	105.22
Ayr County	2,925	43.53	43.73	2,711	43.15	42.41	358	60.65	99.80	332	60.61	105.54
Banff	326	43.15	43.32	300	42.76	42.21	139	61.16	102.71	144	61.17	106.56
Berwick	154	42.90	42.84	156	42.42	41.48	91	61.13	100.29	87	61.25	103.99
Bute	92	42.37	42.20	94	42.45	41.46	220	61.47	102.88	204	61.06	106.52
Caitness	296	43.54	43.97	294	43.24	42.52	300	60.08	96.47	289	59.96	103.86
Clackmannan	356	42.96	42.29	359	42.84	41.77	629	60.71	98.36	584	60.63	104.29
Dumfries County	683	44.00	43.47	663	43.72	42.42	1,458	60.59	98.81	1,377	60.60	104.12
Dunbarton	2,275	43.21	42.77	2,237	42.87	41.44	461	61.00	101.32	371	61.19	107.84
East Lothian	482	43.28	43.41	458	43.13	42.36	1,121	61.20	98.99	1,199	60.88	103.77
Fife	2,712	43.10	42.77	2,590	42.54	41.19	659	61.26	102.49	648	61.21	108.30
Inverness County	770	43.36	43.58	745	43.23	42.60	153	60.07	97.97	161	60.63	103.61
Kincardine	205	44.00	44.70	223	43.52	43.29	4,382	60.63	96.33	4,201	60.72	102.62
Kirkcudbright	118	44.19	44.77	101	43.41	43.06	970	61.36	101.33	802	61.12	105.29
Lanark	6,120	43.65	43.06	5,742	43.26	41.92	404	61.30	100.38	391	61.08	105.60
Midlothian	1,194	44.09	44.01	1,154	43.80	42.79	98	61.78	109.42	121	60.92	109.54
Moray and Nairn	530	43.07	43.10	534	42.68	41.69	84	61.71	101.79	75	61.43	102.39
Orkney	139	44.75	46.12	122	44.07	44.32	822	61.37	99.68	810	61.58	107.36
Peebles	107	44.08	43.57	94	43.81	43.86	2,383	60.12	96.97	2,621	60.46	102.47
Perth and Kinross	1,094	43.41	43.39	933	42.97	42.08	417	61.45	105.78	426	61.24	108.70
Renfrew	3,631	43.10	42.38	3,343	42.75	41.18	252	60.92	96.96	262	61.30	106.75
Ross and Cromarty	545	43.50	44.22	530	43.32	43.51	183	60.57	96.42	174	60.77	102.71
Roxburgh	330	42.76	41.70	271	42.13	40.23	1,160	61.23	101.19	1,130	61.47	108.42
Selkirk	160	42.97	41.94	148	42.26	40.14	110	60.63	100.63	95	60.92	104.35
Stirling County	1,791	43.88	44.52	1,653	43.69	43.52	477	60.44	98.86	773	60.74	104.95
Sutherland	112	43.26	44.01	121	43.16	42.50	32	62.84	116.44	29	62.86	117.79
West Lothian	1,042	42.74	42.09	1,013	42.57	41.06	25,473	60.94	99.52	25,187	60.92	104.88
Wigtown	231	43.94	43.74	199	43.50	42.15						
Zetland	60	46.37	47.93	65	45.52	46.78						
Scotland (excluding Glasgow)	36,952	43.39	43.19	34,974	43.04	42.00						



TABLE V

YEAR 1969

## SCHOOL HEALTH SERVICE

## NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS

SCOTLAND (excluding Glasgow)

SOCIAL CLASS	ENTRANTS						LEAVERS					
	BOYS			GIRLS			BOYS			GIRLS		
	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)
1	178	43.84	44.13	178	43.69	43.27	71	61.83	100.85	81	61.57	102.47
2	407	43.96	43.90	369	43.60	43.21	305	61.63	101.88	281	61.78	110.06
3	1,880	43.39	43.09	1,773	43.11	42.02	1,192	60.78	98.86	1,181	60.93	104.15
4	573	43.22	43.23	539	42.98	41.98	461	60.86	99.50	467	60.55	104.44
5	374	42.86	42.45	397	42.46	40.74	318	60.12	95.22	297	60.12	102.15
OTHER OR NOT STATED	345	42.91	42.34	339	42.56	41.17	248	60.32	96.31	261	60.17	102.27
TOTAL	3,757	43.35	43.12	3,595	43.05	41.98	2,595	60.80	98.70	2,568	60.80	104.37

TABLE VI

YEAR 1969

SCHOOL HEALTH SERVICE

AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS

10% Sample  
Angus

Social Class	ENTRANTS			LEAVERS		
	BOYS		GIRLS	BOYS		GIRLS
	Height (Ins.)	Weight (Lbs.)		Height (Ins.)	Weight (Lbs.)	
1	44.00	49.50	43.80	62.00	124.00	63.50
2	44.71	46.07	43.80	61.57	110.14	61.89
3	44.00	45.26	44.24	61.31	101.09	61.75
4	42.94	41.72	43.90	61.74	107.16	61.47
5	43.67	43.33	44.00	61.71	101.71	59.00
OTHER OR NOT STATED	42.40	40.00	43.00	62.00	105.33	59.00
TOTAL	43.78	44.32	43.92	61.56	104.31	61.38
						107.93

TABLE VII

YEAR 1969

SCHOOL HEALTH SERVICE

NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY  
Scotland (excluding Glasgow)

No. in Family	ENTRANTS						LEAVERS					
	BOYS			GIRLS			BOYS			GIRLS		
	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)	Number	Height (Ins.)	Weight (Lbs.)
1	2,776	43.75	43.96	2,667	43.44	43.04	1,802	61.68	105.71	1,746	61.39	109.11
2	12,776	43.67	43.68	12,152	43.35	42.62	6,475	61.56	102.79	6,162	61.38	107.53
3	10,328	43.44	43.28	9,727	43.03	41.96	6,333	61.13	99.98	6,135	61.11	105.48
4	5,653	43.12	42.68	5,367	42.81	41.44	4,511	60.70	98.14	4,444	60.84	104.23
5	2,645	42.76	42.13	2,520	42.46	40.74	2,687	60.25	95.75	2,755	60.45	102.03
6	1,381	42.80	42.00	1,261	42.31	40.58	1,602	60.27	95.34	1,696	60.23	101.01
7	667	42.49	41.70	648	42.27	40.60	934	59.89	94.45	1,018	60.11	101.10
8	339	42.73	42.05	324	42.15	40.38	513	59.64	94.15	587	59.95	101.31
9	190	42.38	41.28	142	41.69	39.85	290	59.52	92.59	310	59.82	98.16
10	103	42.04	41.14	86	42.10	40.31	157	59.38	91.76	172	59.72	97.80
11	51	42.16	41.12	41	41.93	39.44	80	58.79	88.20	84	59.68	98.44
12	24	43.04	41.75	21	42.38	42.00	43	59.70	93.19	49	60.08	100.45
13	10	42.70	41.30	8	42.13	40.00	29	58.83	90.59	19	59.32	99.11
14	3	42.00	40.67	8	42.13	39.88	10	59.50	89.90	7	59.29	91.43
15	4	42.75	45.50	2	41.50	39.50	3	58.00	100.33	2	58.50	90.50
16	2	41.00	35.00	-	-	-	4	57.50	89.50	1	63.00	114.00
17	-	-	-	-	-	-	-	-	-	1	62.00	93.00

TABLE VIII

YEAR 1969

## SCHOOL HEALTH SERVICE

## AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY

Angus

No. in Family	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
1	43.98	44.24	43.97	44.28	61.43	106.59	60.18	105.60
2	43.90	44.53	43.79	43.57	61.34	104.36	61.46	108.60
3	43.89	44.67	43.51	43.07	60.75	100.22	61.26	105.61
4	43.52	43.36	43.21	41.88	61.11	100.90	60.65	107.94
5	43.20	43.91	42.56	41.62	59.90	95.29	61.02	105.22
6	42.69	41.19	42.90	42.65	59.07	91.47	60.22	104.75
7	43.50	45.00	41.83	40.50	61.00	103.92	60.73	104.67
8	42.67	44.67	43.00	44.25	59.71	96.43	59.67	97.00
9	-	-	-	-	60.75	104.75	62.33	119.00
10	37.00	34.00	40.00	34.00	57.50	96.00	55.50	79.00
11	-	-	43.00	41.00	65.00	109.00	-	-

TABLE IX

## HANDICAPPED CHILDREN

The details of these children are included in the Annual Report of the Medical Officer of Health.

TABLE X

YEAR 1969-70  
AREA -- ANGUS

SCHOOL HEALTH SERVICE  
TESTS OF VISUAL ACUITY

YEAR OF BIRTH	Number Examined		Normal *		Vision 6/9 6/12 in Better Eye		Vision 6/18 or Less in Better Eye	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
A. ENTRANTS i.e. year of Birth 1964	817	749	777(30)	712(24)	35	37	5	-
B. 7 to 8 year olds i.e. year of birth 1962	731	695	697(24)	663(20)	32	30	2	2
C. 9 to 10 year olds i.e. year of birth 1960	708	669	689(36)	642(27)	16	20	3	7
D. LEAVERS i.e. year of birth 1956	646	678	622(30)	655(35)	23	16	1	7
TOTALS	2,902	2,791	2,785(120)	2,672(106)	106	103	11	16

\*These figures include these children c 6/6 vision one eye and 6/12 or worse other eye.  
These have been totalled separately and are shown as figure in brackets ( ).



TABLE XI

YEAR 1969-70  
AREA - ANGUSSCHOOL HEALTH SERVICE  
AUDIOMETRY SWEEP TESTS

TEST GROUP	Number Examined		Number Passing		Number Failing Both Ears		Number Failing One Ear	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
FIRST	106	97	91	84	5	3	10	10
Retest from previous years	-	-	-	-	-	-	-	-
INTERMEDIATE	-	-	-	-	-	-	-	-
Retest from previous years	-	-	-	-	-	-	-	-
FINAL	-	-	-	-	-	-	-	-
OTHER GROUPS*	10	9	10	9	-	-	-	-
SPECIAL REFERRALS	-	-	-	-	-	-	-	-
TOTAL SWEEPS	116	106	101	93	5	3	10	10
TOTAL RETESTS	-	-	-	-	-	-	-	-

\*Those children born between 3rd - 9th March 1958 (incl.)

TABLE XII

## SCHOOL HEALTH SERVICE

YEAR 1969-70  
AREA - ANGUS

## SPECIAL EXAMINATIONS

	Number Examined		Number with Defects	
	Boys	Girls	Boys	Girls
SELECTED BY MEDICAL OFFICER	.	-	-	.
REFERRED BY:-				
TEACHER	18	11	17	5
EDUCATIONAL PSYCHOLOGIST	-	-	-	-
SCHOOL NURSE	3	4	2	3
SOCIAL WORK AGENCIES	-	-	-	-
PARENT	4	8	2	4
FAMILY DOCTOR	-	-	-	-
OTHER SOURCES (PUPIL REFERRING OWN SELF)	-	4	-	2
RE-EXAMINATIONS	2,321	2,132	1,495	1,358
TOTALS	2,346	2,159	1,516	1,372

TABLE XIII

## SCHOOL HEALTH SERVICE

YEAR 1969-70  
AREA - ANGUS

## STAFF STATISTICS

CATEGORY OF STAFF	Establishment Agreed by Council	Number in Post at End of School Year			Number of Vacancies at End of School Year
		Whole-Time	Part-Time	Whole-time Equivalent of Part-Time	Total Whole - Time Equivalent
MEDICAL OFFICERS	6	-	6	1 at 20% each 1 at 40% each 2 at 60% each 2 at 30% each	2.4
HEALTH VISITORS	11(2)*	-	11	7(2)* at 10% each 4 at 3.5% each	.84
NURSES (R.G.N.'s, S.R.N.'s, etc.)	18(1)*	-	18	1 at 75% each 1(1)* at 20% each 16 at 3.5% each	1.51
NURSES (S.E.N.'s)	-	-	-	-	-
PHYSIOTHERAPISTS	1 supplied by Hospital Board	-	1	1 at 30%	.3
ORTHOPTISTS	-	-	-	-	-
AUDIOMETRICIANS	-	-	-	-	-
OTHERS	-	-	-	-	-

\* The bracketed numbers refer to Staff working in Schools in the Burgh of Arbroath.

PUBLIC HEALTH DEPARTMENT,  
RAVENSWOOD,  
FORFAR, 15th SEPTEMBER, 1971

To –  
To County Council of Angus  
The Scottish Home and Health Department.

Ladies and Gentlemen,

As requested by the Scottish Home and Health Department in Circular No. 2/71, I herewith submit Report for the year 1970.

This report deals briefly with most of the functions carried out by the Sanitary Department and includes a section on River Pollution Prevention.

I am,  
Your obedient Servant,

ROBERT A. TAYLOR  
County Sanitary Inspector.

## MILK (SPECIAL DESIGNATIONS)(SCOTLAND) ORDER, 1965

The following table shows the number of licences in each category.

Designation	Licences held on 31.12.69	New licences granted	Licences suspended	Licences revoked	Licences discontinued for other reasons	Licences held on 31.12.70
Premium	20	2	-	1	3	18
Standard	80	5	-	-	5	80
Pasteurised	1	-	-	-	-	1
Sterilised	-	-	-	-	-	-

## ABSTRACT OF BACTERIOLOGICAL SAMPLES FOR YEAR

No. of Bacteria per ml.				Premium	Standard
Between	0	-	2,000	74	74
	2,000	-	10,000	112	288
	10,000	-	15,000	94	243
	15,000	-	50,000	19	136
over	50,000			20	63
No. of samples taken				Premium	Standard
				319	804
No. of samples which passed count test				280	741
B. coli present in 1/100th				46	-
B. coli present in 1/1000th				-	60

Of the 1123 samples taken 960 or 85.48% complied with the bacteriological requirements of the Milk (Special Designations)(Scotland) Order. 163 or 14.52% did not comply in the following respects:-

45 exceeded the bacterial count and coliform bacilli were also present.

61 showed the presence of coliform bacilli and had low counts.

57 exceeded the bacterial count with no coliform bacilli present.

No. of dairymen who complied in every case	...	48
No. of dairymen who failed once	...	23
No. of dairymen who failed twice	...	11
No. of dairymen who failed three or more times	...	18

## SCHOOL MILK

19 Samples of school milk were taken. 2 of these samples failed the statutory tests. On both occasions the appropriate dairymen was informed and subsequent samples proved satisfactory.

## PASTEURISING PLANT

18 Samples of milk were taken from the Pasteurising Plant at Brechin. 2 samples failed the statutory tests. These failures were investigated and follow up samples were satisfactory.



## BULK MILK TANKS

By the end of 1970, 92 bulk milk tanks had been installed.

## FARM IMPROVEMENTS

There are now 38 milking parlours in the County and 37 producers have installed round the shed milk pipe-lines. It has been noted that farmers who have carried out improvements have also been able to maintain a higher standard of hygiene than they did before modernisation.

Those farmers who still continue to use the bucket type milking machines and 10 gallon cans and who use chemicals for sterilisation make up the bulk of the milk failures of the statutory tests. Some of them have been persuaded to return to steam sterilisation and an immediate improvement has been shown.

## BRUCELLOSIS

Every sample of milk taken by this Department and submitted to the Bacteriologist was subjected to the Brucellosis Ring Test. 20 producers showed continuous positive results. This is an increase of 4 since last year. However, 24 farms have become accredited under the Brucellosis (Accredited Herds) Scheme and 27 are in the process of becoming accredited.

## FOOD HYGIENE

It was noted that equipment and premises used in food preparation and handling have been greatly improved over the years since the introduction of the Food Hygiene Regulations

In some cases methods employed are still unsatisfactory and during routine inspections considerable attention is given to the education of food handlers in the correct storage and preparation of food.

In March of this year unsatisfactory conditions found in a fish and chip shop were reported to the Health Committee and, following a warning letter these improved.

Three staff members were successful in obtaining the Diploma in Advanced Food Hygiene following the completion of a course of study at the University of Dundee.

## ICE CREAM

The number of premises registered under the Regulations at the end of the year was as follows:-

Premises for Manufacture, Storage and Sale	...	18
Premises for Storage and Sale	...	29
Vehicles	...	10

Of these, seven premises and two vehicles were first registered in the course of the year.

Sixty-four samples were taken for bacteriological examination and forty-two for chemical analysis. Twenty-eight samples taken for bacteriological purposes were found to be unsatisfactory as a result of which the premises and equipment were inspected and follow-up samples taken. No samples failed to comply with the chemical standard.

### FOOD SAMPLING

A total of 195 samples of foodstuffs were taken for analysis. 26 were taken formally. 15 were reported on adversely by the Public Analyst.

Article	No. Analysed		Non-Genuine		Remarks
	Formal	Informal	Formal	Informal	
Apples	-	3	-	-	See Note A
Apricots	-	1	-	-	
Barley	-	1	-	-	
Barley Sugar	-	1	-	-	
Beans	-	1	-	-	
Biscuit	-	1	-	-	
Bread	-	2	-	-	
Butter	-	4	-	-	
Cake Mix	-	5	-	1	
Castor Oil	-	1	-	-	
Cherries	-	1	-	-	
Coconut	-	1	-	-	
Cochineal	-	1	-	-	
Coffee	-	2	-	-	
Cough Syrup	-	2	-	-	
Cream	-	1	-	-	
Dates	-	1	-	-	
Fat	-	2	-	-	
Fish Cakes	-	1	-	-	
Flour	-	1	-	-	
Gelatine	-	1	-	-	
Grapefruit Juice	-	1	-	-	
Ice Cream	-	41	-	-	
Margarine	-	2	-	-	
Meat Products	2	28	1	2	See Note B[
Mince	3	-	1	-	See Note C
Mincedmeat	-	1	-	-	See Note D
Milk	6	26	-	5	
Mustard	-	1	-	-	See Note E
Peas	-	1	-	-	
Peel	-	1	-	-	See Note F
Potatoes	-	3	-	1	
Pudding	-	3	-	1	See Note G
Sausages	3	4	-	-	
Soda Bicarbonate	-	1	-	-	See Note H
Spaghetti	-	1	-	-	
Soup	-	4	-	2	See Note G
Spice	-	1	-	-	
Spreads	-	9	-	1	See Note H
Spirits	12	-	-	-	
Table Jelly	-	1	-	-	See Note G
Tapioca	-	1	-	-	
Tomatoes	-	1	-	-	See Note H
Veganin	-	2	-	-	
Vegetable Juice	-	1	-	-	See Note G
White Sauce	-	1	-	-	
TOTAL	26	169	2	13	

## NOTES

- A Test Sample No. 25  
Chocolate sponge cake – Unfit for human consumption. Vendor warned.
- B Test Sample No. 11  
Beefburgers – Deficient in meat. Manufacturer notified. Recipe altered. Re-sampled and found genuine.  
Test Sample No. 119  
Scotch Pies – Deficient in meat to extent of 17.5%. Official sample taken – Genuine.  
Official Sample No. 107  
Beefburgers – Deficient in meat. Fined £10.
- C Official Sample, No. 108  
Mince containing  $\text{SO}_2$  outwith permitted period. Fined £5.
- D Test Sample No. 24  
Premium Milk – 0.015 I.U.s. penicillin per ml.  
Test Sample No. 49  
Premium Milk – Deficient in milk fat to extent of 4.29%.  
Test Sample No. 58  
Premium Milk – Deficient in milk fat to extent of 4.3%.  
Test Sample No. 60  
Premium Milk – Deficient in milk fat to extent of 11.4%.  
Test Sample No. 176  
Pasteurised milk – Deficient in milk solids not fat to extent of 4.0%.  
Hortvet test did not indicate added water.
- E Test Sample No. 82  
Potatoes – Reported as “slightly soft”.
- F Test Sample No. 83  
Jam Sponge Pudding – Unfit for human consumption
- G Test Sample No. 13  
Cream of Chicken Soup – Misleading label. Reported to Manufacturers.  
Test Sample No. 18  
Cream of Mushroom Soup – Misleading label. Reported to Manufacturers.
- H Test Sample No. 168  
Ham & Tongue Meat Paste – Deficient in meat to extent of 20%.  
Reported to Manufacturers. Product withdrawn from sale.

## UN SOUND FOOD

The following foodstuffs were dealt with as being unfit for human consumption:-

		Weight (in lbs.)
(a) Tinned Foods:-	Cooked Ham	97
	Pork Products	130
	Corned Beef	78
	Steak	30
	Fruit	790
	Soup	412
	Milk Products	53
	Vegetables	72
	Apples	48
	Miscellaneous	50
(b) Fresh Meat	Bacon	220
	Beef	43
	Pork	11
	Chicken	74
	Liver	8
(c) Frozen Foods	Meat Products	56
	Fish Products	86
	Chicken	76
	Pastry	18
	Vegetables	123
	Ice Cream	32
(d) Miscellaneous	Cheese	6
	Eggs (62 doz.)	
Total weight of food seized		<u>2,513</u>

### MEAT INSPECTION

The inspection of all animals slaughtered in the public slaughterhouse at Forfar and the private slaughterhouse at Brechin is carried out by this Department. The following tables detail the number of animals slaughtered and the quantities of meat condemned.

		FORFAR		Weight (in lbs.) of Condemned	
	Slaughtered	Wholly Condemned	Partially Condemned	Meat	Offal
Cattle	5,919	196	72	85,620	34,875
Sheep	5,451	100	10	3,512	996
Pigs	1,537	24	37	3,408	1,124
Calves	243	14	2	609	126
Totals	13,150	334	121	93,149	37,121

	Slaughtered	BRECHIN		Weight (in lbs.) of Condemned	
		Wholly Condemned	Partially Condemned	Meat	Offal
Cattle	1,937	29	46	12,963	4,495
Sheep	6,562	50	54	2,080	333
Pigs	2,918	44	182	4,854	175
Calves	344	25	4	1,052	122
Totals	11,761	148	286	20,949	5,125

## PUBLIC CLEANSING

### SCAVENGING

The proposed extension of the scavenging service to include another twenty-two parishes suffered a severe setback due to the inability of the vehicle manufacturers to supply vehicles within the period promised. Although all preparatory work had been done for the extension, it was found necessary to delay commencement until next year.

### REFUSE DISPOSAL

In Angus County suitable areas for tipping refuse will expire in the near future. Since all the Angus Burghs and the Landward area are affected several meetings of the Technical Officers of these Authorities have taken place over the year with a view to a Joint Disposal Scheme for refuse disposal.

## CIVIC AMENITIES ACT, 1967

Indiscriminate dumping of refuse continues to take place throughout the County and regular clearing up work continues to be carried out.

On one occasion it was found possible to provide the Police with evidence as to a culprit.

Preparatory work has commenced for the establishment of an official dump under this Act.

## FACTORIES

The number of factories on the register at the end of the year was 126.

8 offences of a minor character including one notified by H.M. Inspector of Factories were found. All have been remedied.

## COMPLAINTS & NUISANCES

The following complaints and nuisances were dealt with during the year:-



Water Supply	...	...	...	...	9
Drainage	...	...	...	...	7
Housing	...	...	...	...	13
Accumulations (Manure or Refuse)	...	...	...	...	12
Offensive Smells	...	...	...	...	8
Smoke	...	...	...	...	1
Rats	...	...	...	...	15
Other Pests	...	...	...	...	4
Piggeries	...	...	...	...	1
Pollution of Ditches etc.	...	...	...	...	19
Foreign matter in Food	...	...	...	...	6
Miscellaneous	...	...	...	...	16
					<hr/>
					111
					<hr/>

### PREVENTION OF DAMAGE BY PESTS ACT, 1949

The total number of visits made by District Inspectors and Pest Officer was 2,184 and the number of treatments required was 365.

No instance of "Warfarin - resistant" rat was found or reported.

### WATER SUPPLIES

Forty-nine water samples were taken from thirty-one supplies used for domestic purposes. These consisted of thirty-four for bacteriological examination and fifteen for chemical analysis.

Eleven routine bacteriological samples were taken from mains supplied from Loch Lee and Lintrathen Loch. Nine supplies were sampled following complaints or for the information of the Medical Officer of Health and seven for grant purposes. The remaining samples were taken as follow-ups after some remedial action had been taken.

### CARAVAN SITES & CONTROL OF DEVELOPMENT ACT, 1960

There are six residential and ten holiday sites within the County.

Apart from one site of twenty-five, the residential licences are for single caravans. The holiday sites range in number from two to one hundred caravans.

During the year, proceedings were taken regarding the use of a field as an unlicensed caravan site. The owner of the field had previously been requested, on several occasions, to make the necessary applications for a site licence. At Forfar Sheriff Court a fine of £60 was imposed on the owner.

### OFFICES, SHOPS & RAILWAY PREMISES, ACT, 1963

#### 1. REGISTRATIONS & INSPECTIONS

Routine inspection of registered premises continued throughout the year.

## 2. OPERATION

Eighty-six per cent of registered premises received one or more visits of inspection during the year. Defects found were drawn to the attention of the occupier.

## 3. ACCIDENTS

No accidents were notified to this Authority. At visits of inspection, occupiers were reminded of their duty to report accidents under Section 48 of the Act.

## 4. PROSECUTIONS

No prosecutions were undertaken.

**Table A — Registration and General Inspections**

Class of premises	Number of premises newly registered during the year	Total number of registered premises at end of year	Number of registered premises receiving one or more general inspections during the year
(1)	(2)	(3)	(4)
Offices	-	27	20
Retail Shops	-	27	29
Wholesale shops, warehouses	-	3	2
Catering establishments open to the public, canteens	1	23	18
Fuel storage depots	-	-	-
<b>TOTALS</b>	<b>1</b>	<b>80</b>	<b>69</b>

**TABLE B**

**Number of Visits of all Kinds (including General Inspections) to Registered Premises**

86

**TABLE C**

**Analysis by Workplace of Persons Employed in Registered Premises at end of Year**

Class of Workplace	Number of persons employed
(1)	(2)
Offices	131
Retail Shops	56
Wholesale departments, warehouses	24
Catering establishments open to public	145
Canteens	-
Fuel storage depots	-
<b>TOTAL</b>	<b>356</b>
<b>Total Males</b>	<b>167</b>
<b>Total Females</b>	<b>189</b>

## BUILDING (SCOTLAND) ACTS, 1959-70

A total of 442 applications for Building Warrants representing a capital works value of £1,416,672 were received and dealt with during the year. Of these, 281 were major warrants, an increase of 60 compared with last year and 161 were minor warrants, a decrease of 44 on last year.

Details of these warrants and their values are shown on the tables below.

### Details of Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	6	£271,500	176	£696,917
Schools	8	39,000	-	-
Shops	-	-	1	1,000
Offices	1	3,000	-	-
Factories	-	-	3	10,450
Miscellaneous	6	7,175	80	345,401

Refusals — Nil

### Details of Minor Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	1	£ 400	99	£ 28,844
Schools	-	-	-	-
Shops	-	-	-	-
Offices	-	-	2	475
Factories	-	-	2	915
Miscellaneous	-	-	57	11,595

Refusals — Nil

## NEW BUILDING LEGISLATION

The following new Building legislation came into operation during the year.

1. Building (Scotland) Act 1970
2. The Building (Scotland) Amendment Regulations 1970
3. The Building Standards (Scotland)(Consolidation) Regulations, 1970.

The main provision of the Building (Scotland) Act. 1970 is to introduce an alteration to the Relaxation Procedure to enable Buildings Authorities to deal with applications for relaxation for certain classes of buildings and certain sections of the Building Regulations. The classes of buildings and the specific sections which can be dealt with are to be detailed at some future date.

The Building Standards (Scotland) Amendment Regulations, 1970 deal mainly with certain alterations to regulations dealing with Structural

Fire Precautions and Means of Escape in Case of Fire and in particular gives alternative means of complying with Regulation 50 which deals with the enclosure of stairways.

The Building Standards (Scotland) (Consolidation) Regulations, 1970 brings together into one document all the various amendments to the Building Standards (Scotland) Regulations, 1963 passed to date and obviates the task of looking up various amendments and in some cases amendments to amendments in separate documents when dealing with particular regulations. This is to be welcomed, but in so doing, the Regulations have been re-numbered using a classification of letters and numbers presumably to be in line with English Building Regulations. This appears to be a pity as the familiarity built up over the years with the old system of numbering the regulations has been negated.

### **BUILDING (SCOTLAND) ACT, 1959—PART III**

#### **DANGEROUS BUILDINGS**

No properties were dealt with under this section during the year.

## ANGUS COUNTY COUNCIL AS RIVER PURIFICATION AUTHORITY

### Information as to Water Resources :

1. Rainfall :                Rainfall records of the River North Esk Catchment area are available and may be inspected at the office of the County Sanitary Inspector, Ravenswood, Forfar.  
  
Six rain gauges are maintained by the East of Scotland Water Board and I am indebted to the Engineer who makes the records available to this Department. Daily readings are taken from four of the gauges, while the remaining two are recorded monthly. The monthly exchange of the rainfall recorded at Whitehillocks and at the Climatological Station R.A.F., Edzell with the County Sanitary Inspector, Stonehaven, continues.
2. Characteristics :      Routine sampling of the rivers North and South Esk is of Streams :                carried out regularly.  
  
Routine sampling of the River North Esk is effected in co-operation with Kincardine County River Purification Authority and the Analysts' reports on all samples are exchanged.  
  
All records are available for inspection at the office of the County Sanitary Inspector.
3. Abstraction of        No action was taken by this Authority during the year. Water :
4. General :                The rainfall records of all gauging stations in the catchment area of the River North Esk are tabulated in Appendix A.

## PREVENTION OF POLLUTION

### Quality of River Water :

The quality of the water flowing in the main rivers continues to be satisfactory. The routine samples taken in the Rivers North and South Esk, in accord with the Analyst's reports show a classification variation from Very Clean to Fairly Clean with the exception of one sample taken from the River South Esk which was reported by the Analyst as having a B.O.D. determination of 4.14 p.p.m. Subsequent investigation showed that on the morning of sampling a considerable quantity of sand and gravel had been removed by the Estate Company from the river bed about half a mile above the sampling point.

The classification scale for stream water recommended by the Royal Commission on Sewage Disposal is used as follows:-



Character of Stream Classification					B.O.D. on Five days (p.p.m.)
Very Clean	...	...	...	...	1
Clean	...	...	...	...	2
Fairly Clean	...	...	...	...	3
Doubtful	...	...	...	...	5
Bad	...	...	...	...	10

Details of the forty-seven samples of stream water taken during the year are shown in Appendix. B.

A map of the area of the River Authority showing the river systems and sampling points is inserted at the end of this report.

### STANDARDS APPLIED TO EFFLUENTS

The undernoted standards have been used to assess the suitability of any sewage effluent discharged into a stream.

1. The biochemical oxygen demand (B.O.D.) in five days at 20°C not to exceed 20 p.p.m.
2. The suspended solids content, dried at 105°C not to exceed 30 p.p.m.
3. The pH value to be between five and nine.
4. The oxygen absorbed from acid N/80 permanganate in four hours at 26.7°C not to exceed 20 p.p.m.
5. Arsenic, copper or chromium, either individually, or in toto not to exceed 0.5 p.p.m.
6. Cyanide (as CN) not to exceed 0.1 p.p.m.
7. No visible oil or grease to be present.
8. The clarity to be at least 225 mm.
9. The discharge not to contain any toxic substances harmful to fish or other aquatic fauna.

In the case of plants providing full treatment except for the settlement of filter effluent, it is expected that when a sample of the effluent is given quiescent settlement for one hour the supernatant liquid shall conform to the above standards.

Plants providing only sedimentation, or septic tanks, are expected to discharge an effluent with less than 100 parts per million solids in suspension. Effluents discharging to watercourses which have less than eight volumes of water available as dilution have to conform to more stringent standards.

The standards presently used to determine the quality of the sewage effluent discharged from Brechin Sewage Purification Works differ in respect of the B.O.D. which should not exceed 200 p.p.m. and the suspended solids content which should not exceed 100 p.p.m.

Trade effluents merit individual assessment.

## SAMPLES AND ANALYSIS OF EFFLUENTS

### SEWAGE EFFLUENTS

The Analyst's findings on the thirty-five samples of sewage effluent (including thirteen from Brechin Sewage Purification Works) discharging to streams are tabulated below.

The B.O.D. and/or suspended solids were reported to exceed the standards in thirty of the samples analysed. In two of the samples low B.O.D. figures were reported by the Analyst and he commented that "B.O.D. results do not agree with the rest of the analysis indicating that there has been inhibition of the process". The figures have been disregarded but are shown in the table under "No Report".

The lowest and highest figures are expressed in parts per million.

	No Report	Satisfactory	Unsatisfactory	Lowest	Highest
B.O.D.	2	6	27	12	650
Suspended Solids	-	23	12	3	185

### NEW OUTLETS AND DISCHARGES

All plans and proposals submitted to the County Council involving new drainage and discharges to streams within the Authority's area are carefully considered. Should it be possible to dispose satisfactorily of the effluent by some means other than to a watercourse, the promoter is advised accordingly.

This procedure has effected a considerable reduction in the number of applications for consent to new outlets and for new discharges to be dealt with.

	New Outlets	New Discharges
(a) Number of applications in hand at the beginning of the year	-	-
(b) Number of applications received during the year	12	1
(c) Number of consents issued	12	1
(d) Number of consents refused	-	-
(e) Number of applications in hand at the end of the year	-	-

It has not been found necessary to take any action in respect of the 211 applications for consent to existing discharges. These are kept in this office.

### SEWAGE AND TRADE EFFLUENTS

No developments have been made during the year which could adversely affect the quality of the streams.

## REMEDIAL ACTION

(A)

The following work of a minor nature was done during the year to remove pollutions of streams:-

### River South Esk

BALGLASSIE – Tile drain to ditch removed and new soakpit provided.

STANNOCHY FARM – Large pit provided for dairy byre and milk waste effluents.

GLENCADAM DISTILLERY – Length of pipe in tun room renewed.

DUBTON FARM – Kerb provided at silage shed.

NETHERTON OF MELGUND – Broken kerb at silo repaired.

(B)

No legal actions were taken during the year.

## RESEARCH

There is nothing to report under this heading.

## OTHER GENERAL INFORMATION

Twelve complaints of alleged pollution of streams received were investigated. In seven cases no evidence of pollution was found, probably due to the transient nature of the pollution; one complaint of pollution due to silage effluent discharge could not be substantiated – the farmer was advised of the complaint; one complaint of discolouration of a stream was found to be caused by a proprietor doing work, which he had a right to do, to improve the banks of the stream at a point above the complainer's estate, and the remaining three complaints were relative to the Brechin Burgh Sewerage System and Purification Works.

# Appendix A Rainfall Statistics River North Esk Catchment Area

Site of Rain Gauge	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	1970 Total Inches
Stables, Glen Lee	7.70	11.50 Feb. & Mar.		5.25	2.85	2.28	4.11	7.48	4.75	2.80	5.22	*	53.94 11 months
Bridge of Lee	7.15	4.41	2.01	3.71	2.44	2.08	6.27	7.33	4.09	2.13	5.17	*	46.79 11 months
Inchgrundle, Loch Lee	7.23	4.58	1.78	3.13	2.30	2.47	6.59	6.37	4.58	2.01	5.07	2.15	48.26
Invermark, Loch Lee	7.63	3.28	1.57	2.74	2.44	2.49	6.36	6.65	3.97	1.87	4.51	1.67	45.18
Whitehillocks, Glen Esk	7.39	3.45	1.37	2.59	2.38	1.19	5.15	5.46	4.35	1.94	*	*	35.27 10 months
R.A.F. Station, Edzell	6.63	4.90	0.97	2.17	0.33	0.71	4.01	2.82	2.47	1.71	4.04	1.77	32.53
Kinnaber, Montrose	4.79	1.83	0.55	0.80	1.55	1.27	4.21	4.42	2.04	1.12	3.60	0.99	27.17

\* Records not available owing to alterations at Works.

## Appendix B

### River North Esk

Date	23.4.70		25.6.70		23.7.70		20.8.70		1.10.70		15.10.70	
Sampling Point	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n
1. Above Edzell	1.1	C.	0.5	V.C.	0.9	V.C.	1.1	C.	0.82	V.C.	0.1	V.C.
2. Below Edzell	0.8	V.C.	0.4	V.C.	0.6	V.C.	1.2	C.	1.25	C.	2.3	F.C.

### River South Esk

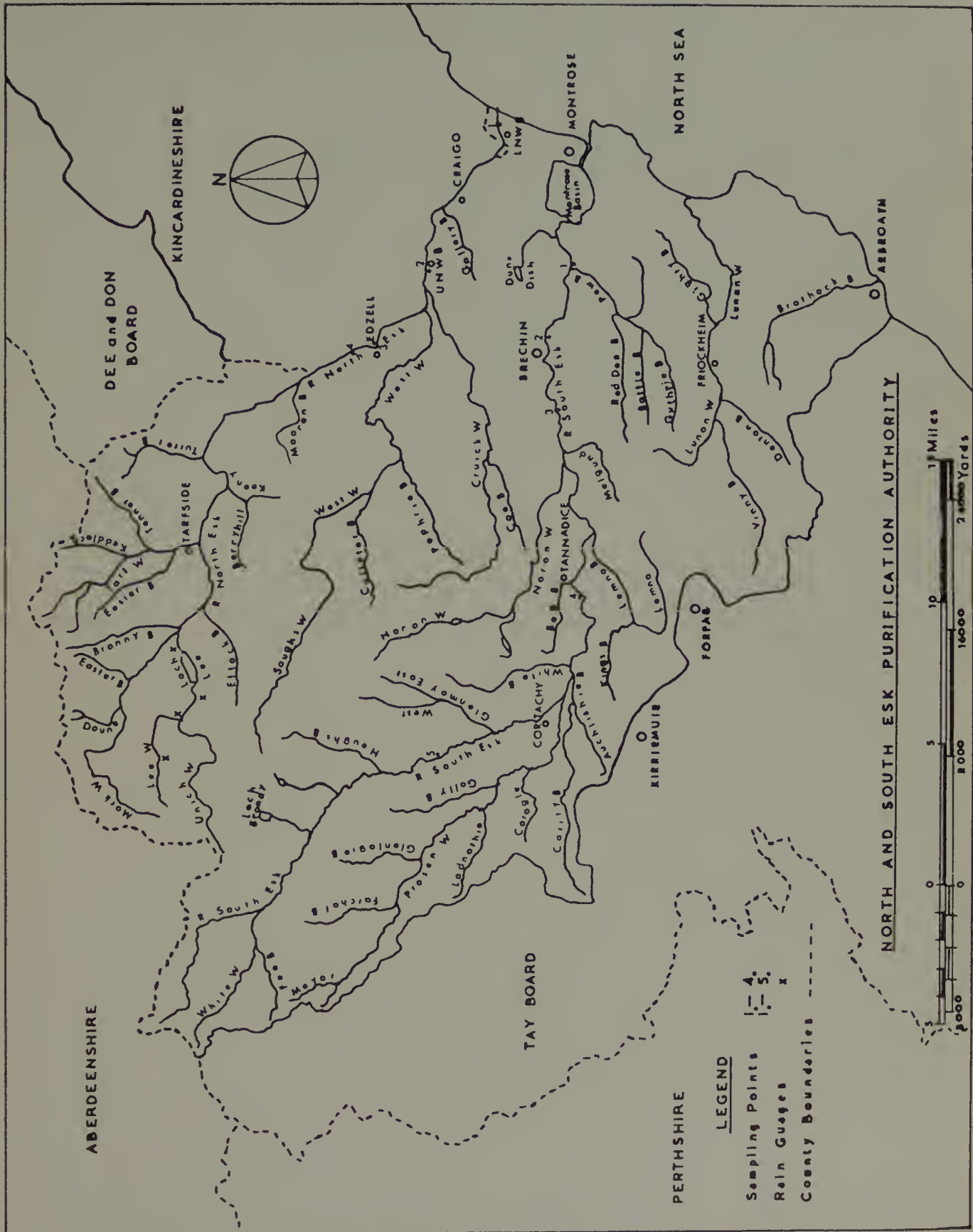
Date	18.3.70		16.4.70		27.5.70		18.6.70		16.7.70		13.8.70		1.10.70		22.10.70	
Sampling Point	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n
1. Near Kinnaird Viaduct	2.3	F.C.	2.3	F.C.	1.2	C.	1.7	C.	1.1	C.	1.0	V.C.	1.44	C.	2.44	F.C.
2. Below Brechin	2.1	F.C.	2.1	F.C.	1.2	C.	2.1	F.C.	1.2	C.	1.3	C.	2.0	C.	4.14	Doubtful*
3. Above Brechin	1.7	C.	0.4	V.C.	0.9	V.C.	0.8	V.C.	0.5	V.C.	0.9	V.C.	1.76	C.	2.26	F.C.

\* Result probably due to disturbance (removal of sand and gravel) of river bed ½ mile above sampling point.



# Appendix B (continued) Other Samples from Streams

Date	Stream	Parts per Million		Remarks
		BOD	Suspended Solids	
9.4.70	Gighty Burn	1.7	8	For Information
16.4.70	Little Pow Burn	2.5	7	For Information
11.6.70	Frickheim Dam	1.1	8	Complaint — Dam used for trout rearing
11.6.70	Vinney Water - near Dam intake	3.5	8	Complaint
8.10.70	Letham Grange Dam	2.76	0	Complaint — Dam used for trout rearing
8.10.70	Magungie Burn - near Dam	2.82	0	Complaint
8.10.70	Magungie Burn - 1 mile above Dam	3.9	0	Complaint
15.10.70	Keithock Burn	1.4	0	Complaint
15.10.70	Keithock Burn	1.0	3	Complaint
29.10.70	Denburn, Brechin	33.9	52	Investigation
12.11.70	Denburn, Brechin	-	70	Investigation — Pollution due to sewage



NORTH AND SOUTH ESKE PURIFICATION AUTHORITY

LEGEND

- Sampling Points (dot with number)
- Rain Gauges (X)
- County Boundaries (dashed line)







